



ASSOCIATE PROFESSOR, SCHOOL OF CREATIVE MEDIA (CITY UNIV., HONG KONG)
DIRECTOR AUGMENTED MATERIALITY GROUP (XRL/AML)

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Alvaro Cassinelli was born in Montevideo (Uruguay) in 1972. In 1990 he earns both a French and Uruguayan B.Sc., and a grant to pursue his studies in France. He obtains a Graduate Engineering diploma in 1996 from the Télécom ParisTech (a French Ivy League), completing the same year a Doctoral Qualifying Degree (DEA/Master) in Physics (Laser & Matter Interaction) from the University of Paris-XI, Télécom and Ecole Polytechnique. In 2000 he receives a PhD degree from the University of Paris-XI Orsay. From 2001 to 2015 he works as a Research Fellow, Research Assistant and then Assistant Professor at the Ishikawa-Watanabe Laboratory at the University of Tokyo, where he co-founds and leads the Meta-Perception group, a multidisciplinary research unit exploring new paradigms and custom hardware interfaces enlarging the vocabulary of HCI and the Media Arts. He co-founded the “Devices that Alter Perception” international workshop (from 2008-2011), and the first “Taller de Arte y Computación Física” in Uruguay (2008). Until 2017 he worked as CTO at SinergiaTech, the first certified FABLAB in Uruguay, and a technology incubator. Presently, he is Associate Professor at the School of Creative Media (SCM) in Hong Kong, co-founder of the Extended Reality Laboratory (XRL), and presently director of the Augmented Materiality Lab (AM).

Alvaro has been invited as keynote or visionary speaker at international conferences related to related HCI, AR/VR and the relation between Sciences and the Arts. He has been Visiting Professor/Researcher at renowned institutions such as KAIST (Korean Advanced Institute of Science and Technology), NAIST (Nara Advanced Institute of Technology, Japan), ESPCI and LANGEVIN INSTITUTE (Paris), CEIBAL (OLPC Uruguay & IT R&D center). He has presented at MICROSOFT RESEARCH (Seattle), SAMSUNG THINK TANK (Mountain View), SCHOOL OF CREATIVE MEDIA (H.K.), WIRED NEXTFEST (N.Y.), as well as the MIT MEDIA LAB among other research centers and universities. He maintains ties with the corporate world, as consultant and/or collaborator for medium and large firms (Art+Com, Electric Factory, OMRON, Samsung Electronics, Hamamatsu Photonics, Nissan Research Center, Sony Labs, the Vision Chip Consortium in Japan, etc.), as well as startups including EXVISION (a spin-off of his former laboratory).

His research interests spans physics, fundamental aspects of computing, high/slow-speed & swarming robots, augmented and virtual reality, cognitive sciences, artificial intelligence, wearables, augmented perception, prosthetics & rehabilitation, and in general human-machine interfaces using novel principles and custom technology—areas in which he holds five patents and one trademark. Independently experimenting in the field of Media Arts, he has been awarded important international prizes, including the Panasonic Prize [2005], an Honorary Mention at Ars Electronica [2006], the Grand Prize [Art Division] at the 9th Japan Media Art Festival [2006], the Excellence Prize [Entertainment Division] at the 13th Japan Media Art Festival [2009], the NISSAN Innovative Concept Award [2010], the Jury Grand Prize at Laval Virtual [2011], the Digital Content EXPO Prize at SIGGRAPH Emerging Technologies [2016], among others.

===== EDUCATION

- 1996-2000** **PhD in Physics/Optics (with honors)**. University of Paris XI (IOTA, Lab. Charles Fabry, CNRS), directed by P. Chavel. Project partially sponsored by the European Community in collaboration with the Weizmann Institute, Heriot-Watt University & Institut d'Electronique Fondamentale. Attended in parallel a master in **Cognitive Sciences** at the School for Advanced Studies in Social Sciences (EHESS) as unregistered student.
- 1995-1996** **DEA (Diploma of Advanced Studies = Master)** in Physics (Laser & Matter interaction). Paris XI/ENST/Ecole Polytechnique. MNESR grant (Ministère National de l'Enseignement Supérieur et de la Recherche) to start a PhD.
- 1993-1996** **Graduate Engineering degree** from Telecom-ParisTech, (equivalent to an Ivy League School in France), a French leading school in computer sciences and telecom, majoring in Computer vision & Image Processing.
- 1991-1993** **Classes Préparatoire aux Grandes Écoles** (Mathématiques Supérieures et Spéciales, major: Physics), two years University-level preparation for the "Grandes Écoles" highly competitive exams. Ranked third in the nation-wide "Concours Commun Mines-Pont-Telecom" for foreigners. Bayonne and Bordeaux, France.
- 1991** Attended six-month at the **Facultad de Ciencias de Montevideo**, Uruguay.
- 9.1990** **French & Uruguayan secondary high school** (with honors and a grant to pursue University-level studies in France), Lycée Français de Montevideo, Uruguay.

===== OTHER TECHNICAL CERTIFICATIONS

- **Machine Learning** / *Stanford* Coursera (September 21, 2018).
- **Neural Networks & Deep Learning** / Coursera *deeplearning.ia* (October 13, 2018).
- **Deep Learning Specialization** / Coursera *deeplearning.ia* (October 13, 2018).
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** / Coursera *deeplearning.ia* (October 25, 2018).

===== SPOKEN LANGUAGES

Spanish & French (bilingual) / **English** (full professional proficiency)

Japanese (conversational) / **Italian** (conversational)

===== WORK EXPERIENCE¹

from 2.6.2019~ **Associate Professor** @ School of Creative Media (SCM), CityU, Hong Kong.

Co-founder/director Extended Reality Laboratory - Augmented Materiality Group (XRL-AM) @ School of Creative Media.

3.2018 **Visiting Professor (Chair Paris-Sciences)** @ Gulliver Institute / ESPCI, Paris, FRANCE.

12.2018-1.2019 **Visiting Professor (Chair TOTAL/ESPCI)**, Experimental Interdisciplinary program ESPCI, Paris, FRANCE.

11-12.2017 **Visiting Researcher** @ Langevin Institute / ESPCI (research on Hydrodynamic Quantum Analog nanobots at the E. Fort Lab), Paris, France.

11.2017 ~ **Technical Advisor & Hardware/Software developer** @ Abbelight (Biotech Company, spin-off of E. Fort Lab & ESPCI), working on Super-Resolution Microscopy, Paris, France.

¹- Present positions highlighted in **blue**.

- 6.2017-6.2020** **Researcher** @ SNI (affiliated and financially supported by the Sistema Nacional de Investigadores), Montevideo, Uruguay. Various independent research projects.
- 6.2017-1.2019** **Visiting Researcher** @ RCAST (Research Center for Advanced Science and Technology), Univ. of Tokyo (research on AR/VR/HCI & New Media), Tokyo, Japan.
- 3-4.2017** **Visiting Researcher** @ Langevin Institute / ESPCI, (physics research on Seebeck-like effect on isotropically displacing programmed nanobots) Paris, France.
- 6.2015-6.2017** **Visiting Associate Professor & Part time Lecturer** @ NAIST (Nara Institute of Science and Technology), Nara, Japan (research on AR/VR/HCI), Nara, Japan.
- 4.2015-11.2017** **Director of R&D** @ Sinergia Tech (Fab Lab, Incubator, Accelerator & STEM Academy). Proposed or evaluated projects and managed human and technical resources. Uruguay.
- 4.2016-11.2017** **Consultant** @ Electric Factory (Creative Innovation Group), Montevideo, Uruguay (with branches in Uruguay, Argentina, Puerto Rico, Chile and USA).
- 9-12.2015** **Visiting Professor & Part time Lecturer** @ ID KAIST (Department of Industrial Design, Korea Advanced Institute of Science and Tech.), Daejeon, South Korea.
- 6-8.2015** **Consultant & Technical Advisor** @ Fundación CEIBAL (OLPC initiative in Uruguay: research on ICT/IOT/Smart Cities/Future of Education), Montevideo, Uruguay.
- 2009 ~** **Technical Advisor** (and shareholder) @ EXVISION (spin off of Ishikawa-lab). Licensed software patents to the company for some of my HCI technologies, Tokyo, Japan.
- 2006-2015** **Assistant Professor** @ University of Tokyo, Ishikawa-Watanabe Lab, (Dept. of Information Physics and Computing & Dept. of Creative Informatics, Graduate School of Information Science and Technology). **Co-Founder and leader** of the **Meta-Perception Group** (HCI, MediaArt, etc), Tokyo, Japan.
- 2002-2005** **Researcher (JST/CREST)** @ University of Tokyo, Ishikawa-Namiki Lab, Tokyo, Japan.
- 2001-2002** **Research Associate (JSPS)** @ University of Tokyo, Ishikawa-Namiki Lab, Optoelectronic Computing and Sensor Fusion Group (optical networking & human computer interfaces using high speed vision technologies). Tokyo, Japan.
- 1998-99** **Teaching assistant (examiner)** in Physics @ Lycée Louis-Le-Grand (Classe Préparatoire aux Grandes Écoles). Paris, France.
- 7-9.1996** **Internship** @ **Optoelectronic Lab/Télécom ParisTech**, Paris, France.
- 7-9.1995** **Internship** @ **Quantum Optics Lab/Ecole Polytechnique**, Paris, France.
- 7.1994** **Internship** @ **CONTROLES** (electronics/telecom company), Montevideo, Uruguay.
- 1994-1995** **Private tuitions in Math & Physics** to first year University students, Paris, France.
- 1988-1989** **Co-founder RGC Hardware-Software Ltd**, teaming with E. Ricobaldi and P. Gindel. Commercialization of the first true light-pen for the micro-computer ZX-Spectrum (word processor, drawing software and games in Z80 Assembler), Mtv. Uruguay.

===== **FREELANCE WORK (PAID)**

1. *Full development (electronic and embedded software) for the control of a commercial super resolution fluorescence microscope* for the company Abbelight, France (2018-2019).
2. *Machine-learning improved portable sphygmomanometer* for MVD Robotics, (Uruguay, 2018)
3. *Initial prototyping (hardware and software) for a wireless modular sports-training system* for Neural Training company (Uruguay, 2017)

===== CONSULTING & ADVISORY WORK [public & private]

1. Consultant for *Ocean Imaginer* (<https://oceanimagineer.org/>). **IoT, Environmental Sensor, Citizen Science**: Sseed Studio, Safecast, Airnote by Blues Wireless, HK City University, School of Creative Media (SCM) Prof Alvaro Cassinelli & Prof Can Liu [2020~].
2. Provided expertise (**embedded hardware and machine vision and AI**) for "CoralBot", a Coral Reef aquatic mapping drone for the protection and monitoring of Hong Kong maritime ecology, initiated by ScoutBots/MakerBay Foundation and with support from local communities [2019].
3. First **consultant** and then **CTO @ SinergiaTech**. I supervised/evaluated the incubation of a dozen tech start-ups, supervised and **directed the I+D department**, getting myself deeply involved in core hardware and software development of several commercial products, such as *Neural Training* (LoRa interconnected sport training modules), the *Table Pong*, an Atari (approved) mechanical table pong, GLUONS (wireless sensor/actuator networks for industry and education) [2015-2017]
4. **Technical advisor** project "AR Youkai", Interact. Media Design, NAIST, Nara, Japan [10.2017]
5. As **consultant** and **advisor** for The Electric Factory (independent creative agency), I evaluated projects, organized, and directed international meetings with important clients, including NBA Sacramento Kings, Toyota, Budweiser, etc. [2016-2018]
6. **Contributor** for governmental reports such as "*Industrias creativas: aspectos que refieren a su dinámica en el cruce con lo tecnológico / Aportes para una Prospectiva sobre el Sector*", a roadmap report for the OPP (Oficina de Planeamiento y Presupuesto), Uruguay [12.2017]
7. **External project evaluator** for ANII (Agencia Nac. de Investigación e Innov.), Uruguay [2016-2017]
8. **Evaluation of candidates** for the SNI (Sistema Nacional de Investigadores), Uruguay [2017]
9. **Consultant** for Plan Ceibal, department I+D+i ("*Aulas del Futuro*") and LabTed ("*Ad-hoc wireless construction kits: Gluons*"). 30 pages report [2/9.2015]
10. **Research collaborator & consultant** for various tech/design companies (SAMSUNG Electronics, TOYOTA Tsusho Electronics, NISSAN Research Labs, Boeing, Omron, Hamamatsu Photonics, OKAMURA (largest Japanese furniture company) to prototype *The Office of the Future* [2006-2010], and NISSAN, for designing *Advanced Personal Mobility Systems* [2006-2010], etc.)
11. **Principal researcher** in Japan for Laserinne, a project funded by the European Regional Development Fund Programming (2007-2013), between Lapland University (Finland), University of Berlin, and The University of Tokyo, joined to develop *interactive laser games on the ski slopes, to be deployed at the Skiing World Cup 2012* at the famous Levi resort [2012]
12. **Consultant** (and later collaborator) for SIGONGTech (Korea), a creative company in charge of the thematic pavilion exhibitions at **Yeosu World Expo** [2012]
13. **Technical Advisor** (former board member) of EXVISION (spin-off Ishikawa Lab.) [2009~]
14. **Contributor** to Roadmap for Optoelectronics report for the European Commission [1996-2000]

===== SUMMARY OF TEACHING EXPERIENCE

CURRENT [2019~]

1. *SM5308 - Art & Technology* (School of Creative Media, HK)
2. *SM2716 - Physical Computing & Tangible Media* (School of Creative Media, HK)
3. *SM3610 - Hardware Hacking* (School of Creative Media, HK)

4. *SM3808 - Special Topics in Art & Sciences II* (School of Creative Media, HK)
5. *Undergraduate Final Year Projects and Graduate Thesis Supervision* (School of Creative Media, HK)
6. *PhD supervision* (5 PhD students), *Co-supervision* (2 PhD students), School of Creative Media, HK).

PREVIOUS

7. *Atelier de Physical Computing pour l'experimentation scientifique*, semaine d'échange **PSL Research University** (+ MINES, ESPCI, Chimie Paris, ENSAD, etc), ESPCI, Paris, France [25-29/3.2019]
8. *Le "Physical Computing": un outil pour le prototypage scientifique*, semaine d'échange **PSL Research University** (+ MINES, ESPCI, Chimie Paris, ENSAD, etc), ESPCI, Paris, France [26/5-3/6.2018]
9. *REBOOT: 1st taller de Robótica* by **MIEM (Ministerio Industria Energia y Minería)**, **SinergiaTech**, financed by **PIEP/Mercosur** (A. Cassinelli, P. Casacuberta & P. Gindel) [5-20/7.2016]
10. *Introducción a la robótica con Arduino/AVR (curso avanzado)*. Duration: 75h. Microcontroller, robotics & electronic course at **MVD Robotics** (P. Sales, P. Gindel & A.Cassinelli), Uruguay [2015]
11. *Spooky Mechanics at a Distance: Special Topic in Physical Computing (ID410)* at **ID KAIST**. Duration: 8 weeks, 2H/week and final projects, Daejeon, South Korea [10-12.2015]
12. *From PICs to AVR microcontrollers" (マイコンプログラミング演習)*, 3h/week at Univ. of Tokyo, **Dept. of Information Physics and Computing**, Tokyo, Japan [2006-2015].
13. *Seminar Optical technologies for HCI—review through practical examples*, yearly class at Univ. Tokyo, **Dept. of Physics and Computing**, [2006-2015].
14. *Direction of PhDs* (T. Laurenzo, UDELAR—Universidad de la República, Uruguay), and supervision of PhD students, master and bachelor thesis in Uruguay, France & Japan (list on demand).
15. *Private tuitions in mathematics and physics* to **first year Univ. students**, Paris, France.

===== AWARDS & PERSONAL GRANTS

STUDY GRANTS

1. Excellence Grant by the French Government to continue studies in France (based on results from the competitive entrance examinations to the “Grandes Écoles”: ranked third at the Mines-Pont-Telecom competitive entrance examination in all of France for foreigners’ candidates).
2. Excellence Grant by the French Ministère de l’Éducation Nationale, de l’Enseignement Supérieure et de la Recherche to study in France — Écoles Préparatoires aux Grandes Écoles
3. Grant by the French government to pursue a PhD (based on DEA honors)

RESEARCH & ART AWARDS²

1. NHK Digital Stadium, Best Selection Award, *Khronos Projector*, aired at NHK-BS2 [8/10.2005].
2. NHK Digital Stadium, Finalist Award, *Khronos Projector*, aired at NHK-BS [14/1.2006].
3. Panasonic Prize at the Digital Art Festival [9-13/12.2005].
4. Grand Prize [Art] @ 9th Japan Media Art Festival (JMAF), *Khronos Projector* [24/2-5/3.2006]
5. Honorary Mention at Prix Ars Electronica, *Khronos Projector*, Interactive Art Category, [8.2006]
6. *Ouroboros* among 53 Finalists (295 entries), “LIVE BITS: Art Exploring Real-Time Connectedness – 80+1”, organized by Ars Electronica, Voestalpine & the city of Linz [2008]
7. Prix category Medicine and Health, *Volume Slicing Display*, Laval Virtual, [22-26/4.2009]
8. Winner Dorbot Tokyo (*It’s a Donnie World*, with S. Perrin), [2009]
9. Excellence Prize at the 13th Japan Media Arts Festival (JMAF), *scoreLight*, with D. Manabe [2009]
10. SIGGRAPH E-tech award at Laval Virtual / ReVolution Demos, *Laser Sensing Display* [2010]
11. NISSAN Research Challenge Innovative Concept Award: Lookahead, Nissan Res. Center [2010]
12. Best Paper Award VRSJ (Virtual Reality Society of Japan) [2011]
13. Jury Grand Prize at Laval Virtual, *Invoked Computing*, [6-10/4.2011]
14. Selected among 23 finalists for the World 3rd OMOSHIROI Award, Osaka, Japan [2016]
15. Digital Content Expo Special Prize @ E-tech SIGGRAPH for *RatChair*, [27/10.2016]

===== PATENTS & TRADEMARKS

1. *Information presentation device (Method & technology to create large displays on moving objects using afterimage* (two patents): 2013, JP (ZL201480038541) & 2014, JP, WO, EP, US, CN (10142601).
2. *Khronos Projector* (licensed software) & System Trademark *KhronoTouch* [2007]
3. *Optical Paquet Routing and routing method*. Japan/ JP2006197133A [2005]
4. *Optical Interconnection device* JP2004294568A / Application filed by National Institute Of Information & Communication Technology [2003, JP]
5. *Cascaded 2D integrated fiber arrays with interleaved topologies for short distance reconfigurable optical interconnections*. JP2003280768A, Application Japan Science & Technology Corp [2002, JP]
6. *All optical Switching Architecture* (UT + OMRON) (switching device / stacked Mach-Zehnder) [2004]

² The most important awards are highlighted in red.

===== ACADEMIC CONTRIBUTIONS

RESEARCH IMPACT FACTORS

1. Google Scholar: i10-index: 20 / h-index: 14

RESEARCH SECURED FUNDING

1. Co-Investigator, *ITSP - Innovation and Tech Support Programme*, with HKBU, CityU and EPFL. PI and main project coordinator: Prof. Jeffrey Shaw. At CityU: Prof. Richard (PI), Allen and 4 Co-Investigator). , *FUTURE CINEMA SYSTEMS*, 35 MILLION HKD [11.2022-11.2024]
2. Co-Investigator, ACIM - Research Fellowship Scheme (Team Research Proposal), *ACIM Team Research Fellowship S+T+Arts* City Univ. of HK (space allocation) [2.8.2022-31.7.2023]
3. Principal Investigator, UGC Special Grant for the Development of Virtual Teaching and Learning, City Univ. of Hong Kong / Hong Kong Univ., *Reverse Panopticon*, 530K HKD [2021-2023]
4. Principal Investigator, Teaching Development Grant (TDG), City Univ., *The Thousand Faces Avatar: simulated one-on-one teaching experiences in MOOC*, 233K HKD [2021-2023]
5. Principal Investigator, SRG-Fd, City University of Hong Kong: *A Visible Laser Projector with LIDAR Capabilities that Can Recognize Textured Surfaces and Perform Interactive Projection Mapping*, 100K HKD [1.9.2021-31.8.23]
6. Principal Investigator, ACIM - Research Fellowship Scheme (Team Research Proposal), City Univ. of Hong Kong: *Augmented Materiality Lab (AML) - From Programmable Matter and Embedded AI to Augmented Bodies and Extended Minds* (space allocation) [9.2021~]
7. Principal Investigator, APRC, City Univ. of Hong Kong: *Extended Reality Laboratory (XRL) - Augmented Reality Laboratory*, 2,773K HKD [3.6.19-31.5.2022]
8. Co-Investigator, SRG-Fd, City Univ. of Hong Kong: *Interaction with Non-Flat Displays*, 100K HKD [1.9.2021-31.8.23]
9. Co-Investigator, SRG-Fd: *2.5D Interfaces for 3D Datasets on Assembled Multi-Display Setups* (Hirao, H. Liu, C. & Cassinelli, A.), City University of Hong Kong [1.9.20-31.8.22]
10. Co-PI, ACIM Research Fellowship Scheme 2018/19, *XRL - eXtended Reality Lab*, CityU, Hong Kong, 100K HKD + space allocation [1/11/2019-30/10/2020]
11. Principal Investigator, Grants-in-Aid Scientific Research (Kakenhi B, JSPS): *Memory Blocks for Spatialized Knowledge—Collaborative Augmented Reality*. 90K USD [2012-2014]
12. Co-Investigator, Grants-in-Aid Scientific Research (Houga, JSPS): *Book Flipping Printing. Subject—Spatial Augmented Reality and new printing methods*. 36K USD [2011-2012]
13. Principal Investigator, Grants-in-Aid Scientific Research (Wakate A): *Smart laser scanner—Human Computer interfaces*. 50K USD [2006-2007]
14. Co-Investigator, Grants Sci. Research (Sakigake S): *Vision Chip applications*. 700K USD [2007-2011]
15. Principal Investigator @ University of Tokyo, Collaborative project with Univ. of LAPLAND & UDK BERLIN. *Interactive Laser Projection System for Downhill Skiing Slope*. 17K USD [2010-2011]
16. Corporate relations tech companies providing funding and material to my lab at U.Tokyo: *Samsung Electronics, Toyota, Nissan Research labs, Omron, Boeing, Hamamatsu Photonics* [2005-2014]

PH.D DISSERTATION

Optoelectronic Stochastic Parallel Processors for real time image processing & application to motion detection (*Processeurs parallèles optoélectroniques stochastiques pour le traitement d'images en temps réel*). Physics/Optics with highest honors. Université Paris Sud – Paris XI IOTA / Laboratoire Charles Fabry de l'Institut d'Optique, Directed by Pierre Chavel [21/9.2000]

IN BOOKS & CATALOGS

1. Eckhoff, D., **Cassinelli, A.**, Liu, T. & Sandor, C., *Psychophysical Effects of Experiencing Burning Hands in Augmented Reality*, 17th EuroVR International Conference, Lecture Notes in Computer Science, Springer Cham, ISBN (Electronic): 978-3-030-62655-6, p. 83-95 [2020].
2. *The analogue notebook: A forgotten exercise?* in Leonardo da Vinci, Art & Science Then & Now, I. Frank & A. Rocca Ed., [2019] ISBN 978-962-442-436-2
3. *Radar Tátil: experimentando um dispositivo de entrada em jogos digitais para pessoas com deficiência visual*, in *Tecnologia Assistiva, Pesquisa e Conhecimento*, Ed. Canal 6 / Mendola & Paschoarelli, Vol II, pp: 263-273, ISBN 978-85-7917-513-8 [2018]
4. *Real or Virtual Matter – or How I Learned to Stop Worrying and Love the Matrix*, essay in *Recto VRso 1st edition Catalog*, Laval Virtual [2018]
5. *Chapters dedicated to my former “Meta-Perception Group”* in *Recognition and Behavior in Smart Systems 2017*, annual public report booklet from the Ishikawa Laboratory [2017]
6. *Les intelligences artificielles, entre réalité et fantasmés, on est ou?*, *CURIO Évolution*, transcript and adaptation by F. Tran [31/1.2018]
7. *Ouroboros* [cover and essay], in *TECNOSCIENZA, Italian Journal of Science and Technology Studies*, Vol.8, No.2, SPECIAL ISSUE: *Data-driven Cities? Digital Urbanism and its Proxies*, C. Coletta, L. Heaphy, S. Y. Perng, L. Waller (Ed.), ISSN: 2038-3460, [2017]
8. *Skin Games*, in *Demo Hour, ACM INTERACTIONS*, Audrey Desjardins (Ed.) [2013]
9. *Upwards, not Northward*, introductory essay in *Swing That Thing: moving to move, The poetics of embodied engagement*, D. Wilde *practice-based PhD* [2011]
10. *EARLIDS & Entacoustic performance & To Blink or Not To Blink*, in *Devices that Alter Perception (DAP’10)*. Charleston/Create Space, Reynolds, C. (Ed.), ISBN-10: 1463664249 [2011]
11. *Kicked up from Flatland: some examples of 2.5 dimensional interactive displays*, in *Augmented Reality Urban Design*, JooYun Kim (Ed.), Design Flux (Ed.), ISBN: 9788992214964 [2010]
12. *Timescape*, (with H. Naito and M. Ishikawa), 大日本印 (Dai Nippon Printing Co. Ltd. (Ed.)), [3.2008]
13. *Khronos Projector: essay* in *Area N16 Caprices de Ville (N.16)*, Descartes et Ci, France (Ed.), ISBN-13: 978-2352760368 [2008]

PEER REVIEWED JOURNALS

1. Samuel Hidalgo-Caballero, Surabhi Kottigegollahalli Sreenivas, Vincent Bacot, Sander Wildeman, Maxime Harazi, Xiaoping Jia, Arnaud Tourin, Mathias Fink, **Alvaro Cassinelli**, Matthieu Labousse, and Emmanuel Fort, *Damping-driven time reversal for waves*, Physical Review Letters, [24.01.2023]
2. Can Liu, Chenyue Dai, Qingzhou Ma, Brinda Mehra, **Alvaro Cassinelli**, *AngleCAD: Surface-based 3D Modelling Techniques on Foldable Touchscreens*, ISS’22 special issue PACM HCI, Proc. ACM: Human Computer Interaction, (25 pages), [accepted 26.9.2022]. → proceeding or journal????
3. Jiaming Liao, **Alvaro Cassinelli**, *Too Good to Be True: An Art Project Using Machine Learning as A Metaphor of Failure*, Journal of Global Pop Cultures, 12 pages, ([online](#)), [5.9.2022]
4. D. Eckhoff, C. Sandor, G. L. Y. Cheing, J. Schnupp, and **A. Cassinelli**, *Thermal Pain and Detection Threshold Modulation in Augmented Reality*, *Frontiers of Virtual Reality*, 13 pages, DOI=10.3389/frvir.2022.952637 [14.09.2022]
5. J. Haebich, ES Kim, **A Cassinelli**, *Radiant soma*, ACM SIGGRAPH 2022 Art Gallery (to appear in *PACMCGIT Journal, Special issue on SIGGRAPH 2022 Art Papers*), [8.8.2022] → proceeding or journal????

- 6.
7. Hidalgo-Caballero, S., Cassinelli, A., Labousse, M. & Fort, E., *Mean arc theorem for exploring domains with randomly distributed arbitrary closed trajectories*, In: European Physical Journal Plus (Publisher Springer Nature), 137(4), 501, 7 pages [4/2022]
8. J. Puig, A. Carusi, **A. Cassinelli**, Ph. Pinel & A. S. Hoel: *A-me and BrainCloud: Art-Science Interrogations of Localization in Neuroscience*, Leonardo MIT Press, Vol. 51, No. 2 [2018]
9. V. Kastrup, **A. Cassinelli**, P. Quérette, N. Bergstrom & E.Sampaio: *Tactile Radar: Experimenting a computer game for the visually disabled*, Disability and Rehabilitation Journal, 18: 1-8, DOI: 10.1080/17483107.2017.1378391 [9.2017]
10. **A. Cassinelli**, E. Sampaio, S.B. Joffily, H.R.S. Lima & B.P.G.R. Gusmão: *Do blind people move more confidently with the Tactile Radar?*, IOS Press, Tech. & Disability, Vol.26, N.2-3, pp: 161–170 [2014]
11. Y. Watanabe, **A. Cassinelli**, Takashi Komuro & Masatoshi Ishikawa: *Interactive Display System based on Adaptive Image Projection to a Deformable Tangible Screen [Best Paper Award]*, Trans. of the Virtual Reality Society of Japan (VRSJ), Vol.15, No.2, pp: 173-182 [2010]
12. N.Ogawa, K.Kikuta, H.Oku, T.Hasegawa, **A.Cassinelli** & M.Ishikawa: *Real World Oriented Interaction System with Microorganisms and Its Preliminary Study*, IPSJ Journal, Vol.49, No.10 [10.2008]
13. **A. Cassinelli**, M. Naruse & M. Ishikawa: *Multistage Network with Globally Controlled Switching Stages and its implementation using Optical Multi-interconnection Modules*, IEEE/OSA Journal of Lightwave Technology, Vol.22, No.2, pp.315-328 [2.2004]
14. **A. Cassinelli**, P. Chavel & M. Desmulliez: *Dedicated Optoelectronic Stochastic Parallel Processor (OSPP) for real-time image processing: motion detection demonstration and design of a hybrid CMOS/SEED based prototype*, Applied Optics, 40, No.35, pp: 6479-6491 [12.2001]
15. R. Pankoke, **A. Cassinelli**, P. Sillard, C. Dorrer, P. Leishing et R. Frey: *Générateurs et amplificateurs paramétriques optiques monomode transverse*, Ann. Physique Fr. 20, 593-594 [1995]

PEER REVIEWED PROCEEDINGS

1. Can Liu, Chenyue Dai, Qingzhou Ma, Brinda Mehra, **Alvaro Cassinelli**, *AngleCAD: Surface-based 3D Modelling Techniques on Foldable Touchscreens*, Proc. of the ACM on Human-Computer Interaction, Volume 6, Issue ISS, Article No.: 582pp 592–616 (25 pages), <https://doi.org/10.1145/3567735>, [12/2022].
2. D. Eckhoff, R. Ng, **A. Cassinelli**, *Virtual Reality Therapy for the Psychological Well-being of Palliative Care Patients in Hong Kong*, *IEEE Intl. Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct Workshop)*, IEEE Digital Library, 5 pages [17-21.10.2022]
3. Jayson Haebich, Eugenia S. Kim, and Alvaro Cassinelli. *Radiant soma*, ACM SIGGRAPH 2022 Art Gallery (SIGGRAPH '22). Association for Computing Machinery, New York, NY, USA, Article 5, 1–2. <https://doi.org/10.1145/3532837.3534950>, [8/8/2022]
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5. Liu, C., Sandor, C., & **Cassinelli, A.** *A Mixed Reality Installation to Elicit Reflexivity on Adverse Childhood Experiences*. *27th International Symposium on Electronic Art Barcelona*, 8 p. [15.6.2022]
6. J. Campbell, **A. Cassinelli**, D. Saakes and D. Rompapas, *B-Handy: An Augmented Reality System for Biomechanical Measurement*, IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW), pp. 976-977 (2 page + poster), DOI: 10.1109/VRW55335.2022.00339 [12/03/2022]

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9. Canet, M., Guliajeva, V., **Cassinelli, A.** *The Beautiful Encounters*, ARTECH 2021 – “hybrid praxis – art, sustainability & technology”, the 10th international conference on digital and interactive arts, Aveiro, Portugal, [13-15/10/2021]
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14. Rompapas D.C., Rodda Ch., Brown B.C., Zerkin N.B., Cassinelli A., *Project Ariel: An Open Source Software Framework for High Fidelity Extended Reality*, CHI EA '21: Extended Abstract of the 2021 CHI Conference on Human Factors in Computing Systems, Art. No. 265, pp:1-6 [8.5.2021]
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16. Cassinelli, A., Sandor, C. & Saakes, D., *Back and Forth - pneumatic anadrome [Serial Painting 1]*, SA '20: *ACM SIGGRAPH Asia 2020 Art Gallery*, art.7, 8 pages, [4.12.2020]
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18. Chang, L., Cassinelli, A. & Sandor, C., *Augmented Reality Narratives for Post-Traumatic Stress Disorder Treatment*, *Adjunct Proceedings of the 2020 IEEE International Symposium on Mixed and Augmented Reality: ISMAR-Adjunct 2020*, p. 306-309 9288433 [11.2020]
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25. **Cassinelli A.**, Saakes D.: *Data Flow, Spatial Physical computing*, ACM 11th Int. Conf. on Tangible Embedded & Embodied Interaction (TEI), Yokohama, Japan [20-23/3.2017]
26. Parshakova T., Mijoo Cho, **Cassinelli A.**, Saakes D.: *Ratchair: furniture that learns to move itself with vibration [E-Tech CONTEX Prize]*, SIGGRAPH E-Tech, Anaheim CA, USA [24-28/7.2016]
27. 安宅 佑樹, カシネリ アルバロ, 渡辺 義浩, 石川 正俊: *特徴音による無線無電源インタフェースの実現(Acoustic Phidgets: untethered passive controllers from acoustic signatures)*, 第20回日本バーチャルリアリティ学会大会論文集, Virtual Reality Society of Japan (VRSJ2015), 11C-6 (2015)
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31. Watanabe Ch., **Cassinelli A.**, Watanabe Y., Masatoshi I.: *Generic Method for Crafting Deformable Interfaces to Physically Augment Smartphones*, ACM SIGCHI, Toronto, ON, Canada [26/4-1/5.2014]
32. Puig J., Perkis A., Pinel P., **Cassinelli A.**, Masatoshi I.: *The Neuroscience Social Network project*, SIGGRAPH ASIA 2013, Hong Kong [19-22/11.2013]
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34. 安井雅彦, カシネリ アルバロ, 奥村光平, 奥寛雅, 石川正俊: *Proposal and Fundamental Study of a Large Field Laser Display Relying on Afterimage and a Flying Tracked Object as Support for Projection*, Trans. 18th Virtual Reality Society Japan (VRSJ'13), Osaka, pp: 499-502, [18.9/2013]
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39. Wilde D., **Cassinelli A.**, Zerroug A.: *LightArrays*, CHIEA'12, pp:987-990, Austin, USA [5-10.2012]
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41. **Cassinelli, A.**, Zhou, Y., Zerroug, A. and Ishikawa, M.: *The Laser Aura: a prosthesis for emotional expression*, SIGGRAPH ASIA, Sketches and Posters, Hong Kong [12-15/12.2011]
42. 宮下 令央, **Cassinelli A.**, 石川正俊: *マウスチェア – restless-interface*, エンタテインメントコンピューティング, (EC2011), セッション6B 測, 06B-01 [7-10/8.2011]
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47. **A. Cassinelli**: *EARLIDS & Entacoustic Performance*, 3rd Workshop on Devices that Alter Perception (DAP) in conjunction with ISMAR, Seoul, South Korea [13/10.2010]
48. Wilde, D., **Cassinelli, A.**, Zerroug, A., Helmer, RJN., Ishikawa, M.: *Light Arrays: A system for extended engagement*, Proc. ICDVRAT/ArtAbilitation, Valparaíso, Chile [9.2010]
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50. **A. Cassinelli**, A. Zerroug, Y. Watanabe, J. Ängeslevä and M. Ishikawa: *Camera-less Smart Laser Projector* [invited], SIGGRAPH, Los Angeles (one page abstract), [25-29/72010]
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55. **A.Cassinelli**, Y.Kuribara, D.Manabe & M.Ishikawa: *scoreLight*, SIG. ASIA Art, Yokohama, p:15 [2009]
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90. **A. Cassinelli**, P. Chavel: *Video-Rate Optoelectronic Parallel Processors for Image Processing using Simulated Annealing*, III. Euro-Amer. Optoelec. Inf. Proc., Colmar, France, pp: 27 [31/5-2/6.1999]
91. **A. Cassinelli**, Ph. Lalanne, P. Chavel and I. Glaser: *Demonstration of Video-Rate Optoelectronic Parallel Processors for Noise Cleaning in Binary Images by Simulated Annealing*, OC'98, Bruges, SPIE Proc. Vol. 3490, pp: 163-166 [1998]

NON-PEER REVIEWED PUBLICATIONS

1. Daniel Eckhoff, Christian Sandor, Gladys L. Y. Cheing, Jan Schnupp, Alvaro Cassinelli, *Thermal Pain and Detection Threshold Modulation in Augmented Reality*, preprint bioRxiv 2022.06.22.497278; doi: <https://doi.org/10.1101/2022.06.22.497278>, 13 pages, [26.06.2022]

2. Daniel Eckhoff, Royce Ng, **Alvaro Cassinelli**, *Virtual Reality Therapy for the Psychological Well-being of Palliative Care Patients in Hong Kong*, arXiv preprint arXiv:2207.11754 [24.07.2022]
3. ECKHOFF, D., SANDOR, C., Cheing, G., SCHNUPP, J. & **CASSINELLI, A.**, *Thermal Pain and Detection Threshold Modulation in Augmented Reality*, preprint bioRxiv 2022.06.22.497278; doi: <https://doi.org/10.1101/2022.06.22.497278>, 13 pages [27.06.2022]
4. Samuel Hidalgo-Caballero, **Alvaro Cassinelli**, Matthieu Labousse, Emmanuel Fort, *Mean arc theorem for exploring domains with randomly distributed arbitrary closed trajectories*, arXiv: 2201.07142 [Mathematical Physics], 14 pages, [18.01.2022]
5. Haebich, J., Sandor, C. & **Cassinelli, A.**, *Classifying Cycling Hazards in Egocentric Data*, Computer Vision and Pattern Recognition (cs.CV), 3 pages, Vol. arXiv:2103.08102 [15.03.2021]
6. C. Sandor, M. Fuchs, **A. Cassinelli**, H. Li, R. A. Newcombe, G. Yamamoto, S. K. Feiner, *Breaking the barriers to true augmented reality*, arXiv:1512.05471 [cs.HC], [12.2015]

===== OTHER SCIENTIFIC PRESENTATIONS

1. **A. Cassinelli** and K. Takashi: *OCULAR-III architecture for parallel interconnections using guide-wave interconnection modules*, OSAKA Research Meeting, Tokyo, Japan [28/10.2002]
2. **A. Cassinelli**, M. Naruse: *Active Alignment system, fiber-bundle interconnection modules and Ocular-II Quadtree compression demonstration*, Osaka Research Meeting, Japan [20/11.2001]
3. **[invited + Award Medicine & Health]: A. Cassinelli & M. Ishikawa: *Volume Slicing Display***, LAVAL VIRTUAL [22-26/5.2009]
4. **[invited]: A. Cassinelli, A. Zerroug and M. Ishikawa: *Haptic Radar & HaptiKar***, LAVAL VIRTUAL [22-26/4.2009]
5. **[invited]: A. Cassinelli, D. Manabe, Y. Kuribara & M. Ishikawa: *scoreLight***, at CONTEX'09 (Digital Content Expo), Museum of Emerging Science and Innovation (MIRAIKAN), Tokyo, Japan [22-25/10.2009]
6. **[invited]: A. Cassinelli: *Laser Sensing Display & scoreLight @ JST Symposium***, in conjunction with IEEE VR'11, SUNTEC Convention Center, Singapore [20-27/3.2011]
7. S. Hidalgo-Caballero, S.K. Sreenivas, M. Harazi, V. Bacot, S. Wildeman, X. Jia, A. Tourin, M. Fink, **A. Cassinelli**, M. Labousse and E. Fort, *Time reversal and spectral wave engineering using damping pulses*, 25E RENCONTRE DU NON LINÉAIRE, Université Paris Cité, France (29-31.3.2022)

===== INVITED TALKS/KEYNOTE/PANELS

1. *Time Delayed Cinema* @ Microwave New Media Art Festival, Hong Kong [4-15/11.2006]
2. *Khronos Projector: interfaz orgánico para pintar con el Tiempo* @ ArtFutura, Barc. [25-28/8.2007]
3. *The Future of Human Computer Interfaces* @ Tokyo C-Wave symposium [2007]
4. *Research and Media Art at the Ishikawa Laboratory* @ New Cultural Economy, Ars Electronica Campus Exhibition (Univ. Tokyo), Linz, Austria [9/9.2008]
5. *Laser sensing for handheld devices* @ Samsung Electronic, Suwon, South Korea, [25/9.2008]
6. *From Science to Art and beyond* @ Hongik University, Seoul, South Korea [25/9.2008]
7. *Invited speaker: Kicked up from Flatland: Augmented Space Through Media* @ Hong-ik University, hosted by J.Kim, Seoul, South Korea [24/6.2009]
8. *Invited speaker: IDD meets DigitaleKlasse* @ Tama Art Univ. & Berlin Univ., Tokyo [2010]
9. *Media and Humanities* @ ISMAR'10, Art/Social/Novel Media, & OpenSession [15-16/10.2010].
10. *Invited speaker: Alvaro Cassinelli: Proyectos* @ Pompeu Fabra University, (class Master Artes Digitales by S. Jordá), Barcelona, Spain. [21/6.2011]
11. *Possibilities of Disseminating Science for Society* @ Science Agora, Kyoto Univ. Museum [12/9.2011]
12. *LightArrays - public talk* (with D. Wilde) @ Tokyo Metro. Mus. of Photography, Tokyo, Japan [2012]
13. *Performing Time, Space & Light*, Interview & Presentation @ School of Creative Media, Run Run Shaw, City University of Hong Kong, invited by J. Shaw (Dean SCM) [23/3.2012]
14. *Embodying Elusive Realities*, Interview & Presentation, invited by P. Maes (Fluid interfaces group) @ MIT Media Lab [15/5.2012]
15. *Interaction Beyond the Desktop*, selected participant @ Dagstuhl Seminar organized by A. Dix, J. D. Hollan, A. Schmidt & J. Steimle [26-31/8.2012]
16. *Invited speaker: Performing Time, Space and Light* @ Microsoft Research (Seattle), hosted by A. Wilson [20/11.2012]
17. *Seminar: Perspectives in Informatics* @ Kyoto University, hosted by M. Cuturi [27/1.2013]
18. *Invited speaker: Minimal interactive displays using laser technology* @ ART+COM, Berlin, Germany [14-20/10.2013]
19. *Informal talk & workshop* @ My Design Lab/ID KAST, organized by D. Saakes [25-27/11.2013]
20. *Invited speaker* @ NAIST (Interactive Media Design Lab), hosted by Ch. Sandor [28/5.2014]
21. *Minimal Displays or Breaking the Pixel Spell*, Making Augmented Reality Real symposium (MARR2014) @ NAIST, organized by Ch. Sandor [4/8.2014]
22. *Speaker & Art Exhibitor* @ Taiwan DOIT 2014, Open Innovation Festival, Taiwan [15-16/2.2014]
23. *Invited speaker: Alternative visions and technologies for spatial AR*, invited talk at the UDELAR (Universidad de la República), Montevideo, Uruguay [5/6.2015].
24. *Invited speaker: Creating New Sensorial Modalities* @ Sensorium of Animals – Electroreception in Experimental and Historical Media and Design Research (1st workshop), sponsored by the Swiss National Foundation, Academy of Art and Design Basel, Univ. of Applied Sciences and Arts, Switzerland, organized by S. Hertrich and S. Miyazaki [3-4/3.2016]

25. *Perception in Augmented Reality*, selected participant @ NII Shonan Meeting (National Institute of Informatics), organized by C. Sandor, D. Schmalstieg & J. Edward Swan II, Japan [14-18/11.2016]
26. *Invited as inspirational speaker* @ GEN (Centro de Artes y Ciencias, directed by P. Casacuberta & A. Arroba) + INAE (Instituto Nacional de Artes Escénicas), Montevideo, Uruguay [1/6.2016]
27. *Análisis crítico de las nuevas tecnologías desde la perspectiva de las ciencias cognitivas* @ CILAC (Foro Abierto de Ciencias América Latina y Caribe), co-panelist P. Casacuberta, Mtv. Uruguay [2016]
28. *Invited as a VIP "visionary"*, @ 1st Laval Virtual Seminar, along with 14 international experts in tech. and industries, organized by S. Richir, Château de la Masure, Mayenne, France [20-23/3.2017]
29. *Keynote: How VR & AR increase our creativity in all areas of application & Jury Member* @ Revolution Awards, Laval Virtual, Laval, France [22-26/3.2017]
30. *Role of Maker Culture in Art & Sciences* @ 10th anniv. Plan Ceibal Forum, LATU (Laboratorio Tecnológico del Uruguay, Uruguay [10-11/5.2017]
31. *Maker Culture in Arts and Science - A personal voyage (panelist)* @ Red MEDIÁFORA (live streaming) Conversatorio en Artes Mediales (panelist), with D. Cruz (Chile), F. Gaumet (Argentina) y M. Craciun (Uruguay), organized by Anilla Cultural Latinoamérica-Europa [22/6.2017]
32. *Opening Talk* (with P. Casacuberta) @ Espacio Avanza/ANTEL (Administración Nacional de Telecomunicaciones), opening permanent exhibition of Khronos Projector. Curated by GEN (Centro de Artes y Ciencias), Montevideo, Uruguay [3/8.2018]
33. *AR in Human-Computer Interaction*, NII Shonan Meeting, Japan [3-7/6.2018]
34. *Invited speaker: The "black box" conundrum: Homo Faber vs. Homo User*, Chaire TOTAL, ESPCI [20.12.2018]
35. *Bio-inspired locomotion for micro-robots*, Uni. Bath (CNRS mission), Bath, UK [13.12.2018]
36. *Invited speaker: Towards a Life Autocorrect*, ESTE ARTE Intl. Art Fair, Punta del Este, Uru. [7.1.2019]
37. *Magic New Media: augments or diminishes the world?*, Encuentro Estival de Arte y Tecnología, organized by the Processing Community, Museo Historico Cabildo, Mtv, Uruguay [17.1.2019]
38. *Experiments on alternative locomotion techniques for micro-robots*, Inst. Gulliver ESPCI, [11.3.2019]
39. *Making Robots in the Arts and Sciences*, Institut des Systèmes Intelligents et de Robotique (ISIR), Sorbonne Université, Paris [13.4.2019]
40. *Invited speaker* at ICISTS 2019 "*The Art of Science: Expression*", International Conference for the Integration of Science, Technology, and Society, Daejeon, Korea [7.29-2.2019]
41. *Invited talk ("Extended Reality Lab")* at Guangzhou Greater Bay Area Virtual Reality Research Institute [13.12.2019]
42. *Invited talk/panel*, Soluna Fine Art, '*Diamond Mountain – Electronic Nostalgia*', Hong Kong, [13.5.2020]
43. *Keynote: Being-in-the-World in the Times of Virtuality: An Art and Science Perspective*, International Conference on Artificial Reality and Telexistence & Eurographics Symposium on Virtual Environments (ICAT-EGVE), [3.11.2020]
44. *Invited speaker*, '*On the importance of keeping reinventing the wheel - an art and science perspective*', ART BEFORE TECH / Workshops on Visual, Sound and Media Art, School of Theatre and Entertainment Arts of HK Academy for Performance Arts and West Kowloon, Freespace, [27.6.2021]
45. *Panelist* (with Ng, R.), Ars Electronica Garden Hong Kong, At the Edge of Reality, Panel Discussion IV (online) [11.09.2021]

46. *Talk, Radiant Soma, Oncurating Project Space* (Alvaro Cassinelli, Jayson Haebich, and Eugenia Kim), Abstract (1 page) + panel discussion (Online: <https://oncurating-space.org/compost-radiant-soma/>), [4.6.2022]
47. *Panelist* (speakers: Lev Manovich, De Kai, Melentie Pandilovski, Priscilla Koukoui and Alvaro Cassinelli), *Videotage's "Foundation - a Web3 Media Art Festival"*, [19/9/2022]
48. *Panelist, Bali Fab Fest: Designing Emergent Realities* (The Center for Bits and Atoms at MIT, Fab City Foundation, The Fab Foundation, Meaningful Design Group), Oct 12-22 (Bali, Indonesia), [10/2022]

===== ACTIVITY IN ACADEMIC SOCIETIES

ORGANIZATION WORKSHOPS & CONFERENCES

1. **Workshop teacher** on Physical Computing (Processing, Arduino & Wiring - focused in communication protocols), Invention Workshop at the Yotsuya Art Studium [17/11.2007]
2. **Workshop organizer** on Physical Computing (focused on control), Ishikawa Lab., Tokyo [13/12.2007]
3. **Invited teacher @ Interactivos'08 Intl. Workshop, MEDIALAB-PRADO**, (theme: *Vision Play*). Lead by S. Jones and A. Cassinelli, with D. Canogar, J. Oliver and P. Valbuena, Madrid, Spain [30/5–14/6.2008]
4. **Teacher** at the 1st Phys.Comp. Workshop in Uruguay (co-founded Taller Computación Física) [1.2009]
5. **Organizer & Program Chair**, 5th Asia-Pacific Comp. and Phil. Conf. (AP-CAP'09), Tokyo [1-2/10.2009]
6. **Workshop Chair**, Devices that Alter Perception (DAP'08) / UbiComp'08, Seoul, Korea [21/9.2008]
7. **Workshop Chair**, Devices that Alter Perception (DAP'10), in conjunction with IEEE International Symposium on Mixed and Augmented Reality (ISMAR,10), Seoul, South Korea [13/10.2010]
8. **Art's track Chair** TEI'13 (with J. Perelló & R. Parès), Barcelona, Spain [10-13.2013]
9. **Workshop Organizer/Program Committee**, Experiencing Interactivity in Public Spaces (EIPS) @ ACM SIGCHI Conference on Human Factors in Computing Systems CHI'13, Paris, France [27/4-2/5.2013]
10. **Workshop Organizer/Program Committee**, Displays Take New Shape: An Agenda for Future Interactive Surfaces @ ACM SIG-CHI'13, Paris, France [27/4-2/5.2013]
11. **Organizer and teacher**, REBOOT: 1st taller de Robótica, supported by MIEM (Ministerio Industria Energía y Minería), SinergiaTech, and Mercosur (A. Cassinelli, P. Casacuberta, P.Gindel) [5-20/7.2016]
12. **Jury Member @ Revolution Awards**, Laval Virtual, Laval, France [22-26/3.2017]
13. **Program Committee @ Laval Virtual, Revolution Awards (ReVo'18)**, Laval, France [3-8/4.2018]
14. **Jury official selection** for Recto-VRso Gallery (Int'l. exhibition of art, virtual and mixed reality, for its 20th anniversary), first edition @ Laval Virtual [3-8/4.2018]
15. **Program Chair**, ACM SUI 2020, Ottawa, Canada [31.8-1.11.2020]
16. **Studios Chair**, TEI '21, 16th ACM Conf. Tangible, Embedded & Embodied Interaction, [13-16.2.2022]
17. **Panel Moderator**, Ars Electronica Garden HK, 'Redefining Art Presentation in the Digital Era', (online) [9.9.2021]
18. **Panel Moderator**, ISEA 2022, 27th International Symposium on Electronic Art, (Barcelona 10-16/06/2022)
19. **Workshop organizer**, Bali Fab Fest: Designing Emergent Realities (The Center for Bits and Atoms at MIT, Fab City Foundation, The Fab Foundation, Meaningful Design Group), Oct 12-22 (Bali, Indonesia), [12-22/10/2022]

REVIEWING / EDITORIAL ACTIVITY

- Co-Editor, *Frontiers in Virtual Reality* Special edition / Research topic: “Mixed Reality in Palliative Care” (10.2022 / in preparation)
- ACM SIGCHI, ACM SIGGRAPH, IEEE Transactions on Communications, Photonics Technology Letter, IEEE Conf. on Virtual Reality (IEEEVR), Intl. Conference on Robotics and Automation (ICRA), Elsevier, Optics and Lasers in Engineering, Intl. Journal of Imaging Systems and Technology (IJIST, Korea), ACE Intl. Conference on Advances in Computing Entertainment Technology, Tangible and Embedded Interaction (TEI), New Instruments for Musical Expression (NIME), Intl. Symposium for Wearable Computers (ISWC),

ACM Spatial User Interfaces (SUI), ACM Conference on Designing Interactive Systems (DIS), ISMAR, LAVAL VIRTUAL, SIGGRAPH-ASIA, Personal and Ubiquitous Computing Journal, etc.

PROFESSIONAL MEMBERSHIP

- **ACM** (Association for Computer Machinery) Professional Member / Affiliation: SIGCHI
- **IEICE** (The Institute of Electronics, Information and Communication Engineers)
- **VRSJ** (Virtual Reality Society of Japan)

===== WORKS AS MEDIA ARTIST (solo/collaboration)³

[2005]⁴ Khronos Projector

- ★ Split Film Festival, (Croatia) [3/6-10/7.2005]
- ★ Interactive Tokyo [25-26/8.2005]
- ★ NHK Digital Stadium, **Best Selection Award**, aired at NHK-BS2 [8/10.2005]
- ★ NHK Digital Stadium, **Finalist Award**, aired at NHK-BS [14/1.2006]
- ★ Digital Art Festival, **Panasonic Prize** [9-13/12.2005].
- ★ 9th Japan Media Art Festival (double screen), **Grand Prize in Art Division** [24/2-5/3.2006]
- ★ Laval Virtual (France) [25-30/4.2006]
- ★ Aired in "On a tout essayé" TV program, France 2 Television [4/5.2006]
- ★ TIMESCAPE installation at the Okamura Design Space (collaboration with architect Hiroshi Naito), Tokyo [3-28/7.2006]
- ★ TV-Tokyo, 知恵の和 [13/08.2006]
- ★ O.K. Center for Contemporary Art in Linz, Austria, **Honorary Mention at Prix Ars Electronica** (Interactive Art - Prix Ars & Cyberarts) [31/08-8/10.2006].
- ★ **Two years exhibition** at the Ars Electronica Center (AEC), Linz, Austria [2006-2008]
- ★ Future of Design Pavillon at **WIRED NEXTFEST**, New York [20/09-01/10.2006]
- ★ Animatronica - Microwave Int. New Media Arts Festival, Hong Kong [4-15/11.2006]
- ★ NTT Inter-Communication Center (ICC), curated exhibition *Sight & Sound: Watch the sound, listen to the images*, (Khronos with *spatialized sound* on the screen) [14/7-2/9.2007]
- ★ Design Pavillon at **WIRED NEXTFEST**, LA, Convention Center [13-16/09.2007]
- ★ ArtFutura, Barcelona [25-28/10.2007]
- ★ OPENPLAY, Digital Art Festival Taipei, Taipei, Taiwan [23/11-2/12.2007]
- ★ VIA'08 Festival International, Maubeuge, France [20-22/3.2008]
- ★ EXIT'08 festival international, Maison des Arts de Créteil, France [28/3-5/4.2008]
- ★ Tokyo Science and Technology Museum, Tokyo [6/7.2008]
- ★ J-PARC opening ceremony and **permanent exhibition**, Ibaraki, Japan [10/8.2008~]
- ★ SCOPITONE Festival, Nantes, France [17-21/9.2008]
- ★ **Permanent exhibition** at ANTEL (Uruguay's government-owned telecommunications company), Espacio Ciencias, Montevideo, Uruguay [2/2017~]
- ★ Numerous TV programs in Japan, France, USA, etc (see Media Appearances).

³- For more works (including works in progress or experimental), check: www.alvarocassinelli.com

⁴- Work creation date.

[2007] **Dis-Chord**, Interactive sound/video installation with Ph. Chatelain & D. Manabe, Museum of Contemporary Art (MOT), Tokyo [2007]

[2007] **Flat Elephant Walks**, Okamura Design Space R / New Otani Garden, Tokyo. By S.Egashira with the help of Okamura team, Y. Fukui (structures) & A. Cassinelli (visuals / interaction) [12-27/7.2007]

[2007] **Dorkbot Swiss Tokyo**, interactive sound/image performance with S. Perrin [2007]

[2007] **NoForkDroise + Alvaro Cassinelli**. Live performances at Nana Hari, interactive visuals & sound [22/12.2007-19/1.2008]

[2008] boxedEgo

- ★ Sonar/Sonarmática: FUTURE PAST CINEMA [commissioned], curated by J. L. de Vicente, O.A. Ascaso & Advanced Music SL. With the collaboration of Medialab-Prado and the Museu de Cinema de Girona, Barcelona, Spain [2008]
- ★ Medialab-Prado, Vision Play workshop exhibition, Madrid, Spain [2008]
- ★ Ars Electronica/HYBRID EGO - Tokyo Univ. Campus Exhibition, Linz, Austria [2008]
- ★ SNUMOA (Museum of the Seoul National University), Game+Interactive Media Art, Seoul, South Korea [2.12/2010-9/12.2011]

[2008] **Sticky Light**, Ars Electronica/HYBRID EGO, Tokyo Univ. Campus Exhibition, Linz, Austria [2008]

[2008] Wireless Haptic Radar

- ★ Ars Electronica/HYBRID EGO, Tokyo Univ. Campus Exhibition, Linz, Austria [2008]
- ★ Ars Electronica Center (AEC) as part of the permanent exhibition New Views of Humankind/Main Gallery/Robolab, Linz, Austria [2009-2011]

[2008] **Ghostly Images Appearing in Moving Human Eyes and Still Machine Eyes**, with H. Ando, and J. Watanabe. DIGITAL EXPERIENCES curated Show at SIGGRAPH ASIA, Singapore [2008]

[2009] **It's a Donnie World**, winner Dorbot Tokyo (with S.Perrin). Face recog. + AR + printer [2009]

[2009] Hapti-Cat mask & Electric Silhouette

- ★ Maker Faire Tokyo [2009]
- ★ DOIT Taiwan Open Innovation Festival, Taiwan [2014]

[2009] scoreLight (with Daito Manabe and other technical contributors)

- ★ CONTEX2009, Miraikan, Tokyo, Japan [22-25/10.2009]
- ★ 13th JMAF [Excellence Prize], National Art Center, Tokyo [3/2-14/2.2009]
- ★ SIGGRAPH ASIA, Art Gallery Adaptation & E-Tech, Yokohama, Japan, p.15 [17-19/12.2009]
- ★ EXIT & VIA festival, Creteil and Maubeuge, France [18-28/3.2010]
- ★ Fuji TV stage, ホルスの好奇心 [3.1/2010]
- ★ SCOPITONE FESTIVAL, Nantes, France [15-19/9.2010]
- ★ Lille3000, Dancing Machine, Lille, France, [2/7 – 31/10.2010]
- ★ Kyoto Media Art Festival, Kyoto, Japan [2/9-12/9.2010]
- ★ Okayama Media Art Festival, Okayama, Japan, [30/10-7/11.2010]
- ★ Nihon Terebi (Japanese TV) 「世界一受けない授業」 [18.12.2010]
- ★ SNUMOA, Game+Interactive Media Art, Museum Seoul Nat. Univ. [12.2/2010-1.9/2011]
- ★ Japanese television, TV Asahi, Sakicho program [12/2010].

- ★ Sonar Tokyo Festival [2-3.4.2011]
- ★ *Sense of Machines* (one year at Disseny Hub Barcelona) [21.06/2011 – 15.01/2012]
- ★ Dancing Machine / Monaco Dance Forum [10-17/12. 2011]
- ★ Microwave Festival: Alchemy: Drifting labs, curated by J. Kwon, Hong Kong, [6-21/11.2011]
- ★ CHI'12 Interactivity session, [5-10/5.2012]
- ★ Tokyo Designer Week (projection on 3d solids in collaboration with D. Manabe) [31/10.2012]
- ★ DOIT Taiwan Open Innovation Festival (DOIT TAIWAN) [2014]
- ★ Laser Pong @ first Mini-Maker Faire, Sinergia Tech, Montevideo Uruguay [27-28/10.2017]

[2011] Light Arrays (with Danielle Wilde & other dancers, choreographers and technical contributors)

- ★ Performance and installation at the Yebisu International Festival of Art and Alternative Visions choreographed and performed by Alessio Silvestrin **[commissioned]** [18-27/2.2011]
- ★ SEAM2011, Spacing Movements Outside In, Sydney, Australia [9.2011]
- ★ Microwave Festival: Alchemy: Drifting labs, Hong Kong [6-21/11.2011].
- ★ CHI'12 Interactivity session [5-10/5.2012]

[2008] Line-Surface-Noise, conceived and co-created with Ph.Chatelain. Fundació Pilar i Joan Miró, Mallorca, Spain [11/10-30/11.2008]

[2011] Numbers, Time & Space: seeing through numbers (with Ph. Chatelain), *Taller de Produccion* directed by Ch.Sugrue and D.Sanchez / Media Lab Prado, Madrid, Spain [29/3.2011]

[2011] Fil Rouge, with H. Cassinelli, Galerie Schumm-Braunstein, Paris, France [2011]

[2013] Brilliant Cube by Jin-Yo Mok. Contributed visuals with J. Ängeslevä. Gangnam district, Seoul, South Korea [10-12/2013]

[2012] Cybernetic RattenKonig, with H. Cassinelli for the exhibition *IMAGEN*, Galerie Schumm-Braunstein, Paris [13/3-25/4.2012]

[2012] Skin Games, demo at MIT Media Lab (after ITS'12), Cambridge, MA, USA [11.2012]

[2013] Simul-Tango, connecting professional dance Studio RADA (directed by S. Muramoto) with other tango *milongas* around the world in time & space. Made with OF: ofxGstRTP (A. Castro & S. Hunter) + ofTwitter. Syncing iTunes in real time, Tokyo, Japan [10.2014]

[2014] Songe d'une Nuit d'Hiver (A Midwinter Night's Dream), with S. Perrin & M. Ishibashi.

- ★ Institut Français du Japon, DIGITAL SHOCK, Tokyo, Japan[21/2-23/3.2014]
- ★ Toro-bots at DOIT Taiwan Open Innovation Festival, Taipei, Taiwan [2014]
- ★ Public shows - strolling bots in the streets of in Tokyo and Montevideo (Uruguay) [~2015]
- ★ Mini-Maker Faire, Sinergia Tech, Montevideo Uruguay [27-28/10.2017]

[2014] Interactive Notebook Exhibition, Interactive exhibition of 10 years of notebooks at Cafe & Shop Uma Merdre (made with OF), Tokyo, Japan [9.2014]

[2014] Unelospuntos 2, contribution to H. Cassinelli performance at Art Up!, International Art Fair, Lille Grand Palais, Lille, France [15-18/2.2014]

[2015] Dancing Robots Lamps, contribution to E. Montgomery, *Quantum concert*, SODRE (Servicio Oficial de Difusión, Radiotelevisión y Espectáculos), Montevideo, Uruguay [11/2.2015]

[2016] ARCHÉOptiques, collaboration with H. Cassinelli (interaction design, hardware & software). private commission for Orange Gardens, Châtillon, France [2016]

[2016] Ratchairs

- ★ [Digital Content Expo \(CONTEX'16\)](#) [special prize] Tokyo, Japan [27-30/10.2016]
- ★ [SIGGRAPH 2016 Emerging Technologies](#), Anaheim, California, USA, [4-8/7.2016]
- ★ [Maker Faire Seoul 2015](#), Seoul, Republic of Korea [10-11/10.2016]
- ★ Aired in [Discovery Channel Canada](#) [5/7.2017]

[2017] GLUONS (Spatial Physical Computing modular construction kit):

- ★ [Mini-Maker Faire](#), Sinergia Tech, Montevideo Uruguay [27-28/10.2017]
- ★ [Campus Party](#), Buenos Aires/Tecnopolis, Argentina [26-29/10.2016]

[2019] The Analogue Notebook: a forgotten exercise?

- ★ "[The analogue notebook: A forgotten exercise?](#)" Cassinelli, Alvaro (Artist). Leonardo da Vinci, Art & Science Then & Now. Curated by I. Frank and A. Rocca, Assoc. Curators: J. Shaw and N. Patrzynski, Indra and Harry Banga Gallery, City University of Hong Kong. 20.9 - 15.12.2019.

[2020] Viva Voce

- ★ "[Viva Voce](#)", Can Liu & Alvaro Cassinelli. Art Machines, Past/Present, Curated by Richard Allen and Jeffrey Shaw, Indra and Harry Banga Gallery, City University of HK [24.11.2020 - 21.2.2021]

[2020] Loki's Pain

- ★ Lindborg, P. & Cassinelli, A., [Art Machines, Past/Present](#), Curated by Richard Allen and Jeffrey Shaw, Indra and Harry Banga Gallery, City University of Hong Kong, [24.11.2020 - 21.2.2021]

[2021] The Polyphonous Avatar

- ★ Ng, R. & Cassinelli, A., [Live Art Festival #11 & Claiming Common Spaces III, Kampnagel, Hamburg, Germany](#) (online performance) [4.06.2021]
- ★ Ng, R. & Cassinelli, A., [Ars Electronica Garden Hong Kong / Art in the Cloud Exhibition, At the Edge of Reality](#) (online), [9.2021]
- ★ (video showcase) in "Exhibition: Garden Hong Kong @ Osage", Garden Hong Kong @ Osage (conclusion of Ars Electronica Festival 2021 – Garden Hong Kong, a 4-day finissage art exhibition curated by Ann Mak, showcasing the highlights of the Garden.)

[2021] Horizon: a stereoscopic panorama exploration (collaboration)

- ★ Rodriguez, A. L., Cassinelli, A. & Sandor, C., [Laval Virtual, Laval, France](#) [7.2021]

[2021] Neuron Addiction

- ★ Maurice Benayoun & Alvaro Cassinelli, ARTECHOUSE Washington, 27/9-28/11/2021

[2021] Torobots and Shybots

- ★ Invited artist at Microwave New Media Arts Festival 2021 (two works):
 - ***Move on, nothing to see (aka Shy-Bots)***, A. Cassinelli, commissioned artwork Microwave Festival, Hong Kong, 30/10-14/11/2021
 - ***The Toro-Bots and the Generative Garden***, A. Cassinelli, commissioned artwork Microwave Festival, Hong Kong, 30/10-14/11/2021

[2022] The Second Garden (Cymatic Ground)

- ★ Alvaro Cassinelli and Tobias Klein, Oil Street Art Space, Hong Kong, 24/3/2022 – 30.10/2022 [<https://www.scm.cityu.edu.hk/events/three-gardens-sanjiashan>]
- ★ Alvaro Cassinelli and Tobias Klein, ISEA 2023, *Symbiosis*, Paris, FRANCE, 16-21/5/2023

[2022] Radiant Soma

- ★ KIM, E. S., HAEBICH, J. K. & CASSINELLI, A., ***Radiant Soma***, ACM SIGGRAPH 2022: ART GALLERY, Vancouver, Canada, 8-11/08/22.

===== MASS-MEDIA APPEARANCES

- **NHK BS2** (デジスタアワード), Khronos Projector, Best Selection Award [8/10.200-14/11.2016]
- **TV Tokyo** (テレビ東京), 「知恵の和」 with Khronos Projector [13/8.2006]
- **France 2** (French television) with Khronos Projector at "On a tout essaye", [4/5.2006]
- **NTV Japan TV** (日本テレビ), 「世界一受けたい授業」, with Haptic Radar [7/6.2008]
- **FNN (Fuji-terebi)**, 「ホルスの好奇心」 with scoreLight, [3/1.2010]
- **FNN (Fuji-terebi)**, 「ホルスの好奇心」 with Khronos Projector, [11/4.2010]
- **TV Tokyo** (テレビ東京), 「さきっちょ」 with Khronos Projector, [22/6.2010]
- **TV Tokyo**, 「ワールドビジネスサテライト,トレンドたまご」, Volume Slicing Display, [19/7.2010].
- **TBS**, 「夢の扉」, with Khronos Projector, (5/9/2010)
- **BS Japan**, 「世の中進歩堂」, with Khronos Projector & Volume Slicing Display (17/9/2010)
- **NTV Japan Television** (日本テレビ), 「世界一受けたい授業」, Volume Slicing Display (9/10/2010).
- **NTV Japan Television** (日本テレビ), 「世界一受けたい授業」, Smart Laser Scanner (18/12/2010).
- **テレ朝**, 「さきっちょ」, with Laser Sensing Display (17/1/2011).
- **TBS**, 「教科書に載せたい」, with Khronos Projector (3/5/2011).
- Laser Scanner Reads Air Writing, article on **Discovery Channel.com** [1/9.2005]
- **Discovery Channel** (covering **WIRED NEXT FEST**), with the Khronos Projector [2006]
- The Daily Planet (**Discovery Channel Canada**), about Haptic Radar [6/11.2007]
- **RTVE** (radiotelevisión Española), artist interview [17.6.2008]
- **RTVE**, Japan_ON (Metropolis) [2010]
- **ITV1 British Television**, with **Joanna Lumley** as "**Catwoman**", aired on [6-13/9.2009]
- Interview at **Cite des Sciences**, Universcience.tv WebTV [23/9/2010]
- **ANTENA 3 TV**, **El Hormiguero**, with scoreLight tried by special guest **Hugh Jackman**, [6.2014]
- **Canal Doce**, Montevideo, Uruguay (showing dancing robots), [2.2015]
- **CHINA TIMES CTV**, with ToroBots in the Garden [15/11.2015]
- **Monte Carlo TV** (Uruguay), about REBOOT WORKSHOP [1/9.2016]
- **Discovery Channel Canada**, with Ratchairs [5/7.2017]
- **Newspapers & international magazines** including Nikkei Shimbun (Japan), Tokyo Shinbun (Japan), アスキ (Japan), ArtTop (Japan), PopEye (Japan), Nikkan Kogyo Shimbun (Japan), Metropolis (Japan), Sankei Shimbun (Japan), Tokyo Design Brand (Japan), Okamura Design Space-R (Japan), ID Magazine, Wired Magazine (USA), Liberation (France), Le Soir (France), Avantages (France), L'Ordinateur Individuel (France), The Guardian (UK), etc.
- **Online: Gizmodo, IEEE magazine, Ubergizmo, BoingBoing, We-make-money-not-art, Wired**, etc.

===== ONLINE RESOURCES

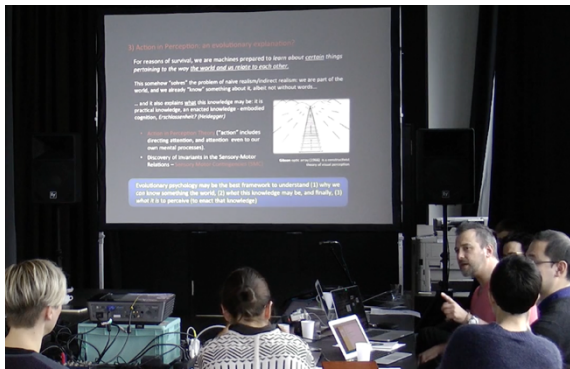
1. Personal website: alvarocassinelli.com
2. Augmented Materiality Lab: augmentedmaterialitylab.org (former xrl-lab.org)
3. Former group (Meta-Perception): www.k2.t.u-tokyo.ac.jp/perception
4. Blog & futurist essays: *Threebeornothreebe: Thinking in the mi[d]st* (3bornot3be.blogspot.fr)
5. Archive of presentations with slides & videos (documentation and experiments):
 - ★ SlideShare: www.slideshare.net/alvarocassinelli
 - ★ Youtube: www.youtube.com/user/alvartube
6. Open Source software & hardware contribution (OpenFrameworks, mbed ARM, Processing, Arduino - designing sketches, libraries, and shields). Software repositories:
 - ★ GitHub: github.com/alvarohub
 - ★ MBED: os.mbed.com/users/mbedalvaro/

===== **SOME VIDEO INTERVIEWS**



Microwave 2021, Hong Kong [2021]

[Link](#)



Creating New Sensorial Abilities, Sensorium Animals workshop kickoff, Basel, Swiss [3-5/3.2016]

[Link](#)



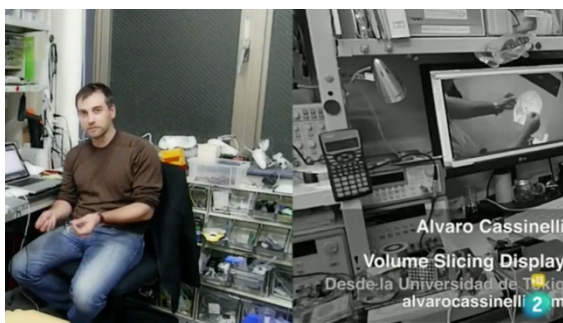
Performing Time, Space and Light, Microsoft Research, Seattle [20/11.2012]

[Link](#)



Interview at Cite des Sciences (WebTV), Cite des Sciences, France [23/9.2010]

[Link](#)



RTVE, Japan_ON (Metropolis), [2010]

[Link](#)