

11th International Scientific Conference on Neuroethics and 6th Conference of the Italian Society for Neuroethics (SINe)
In collaboration with International Neuroethic Society (INS)

THE FUTURE OF NEUROETHICS
Meetings on Neuroscience and Society, XI Edition
May 15th – 17th, 2019
Vita-Salute San Raffaele University, Milan
Room Newton – DIBIT 1, Via Olgettina 58

Scientific and Organizing Committee

Michele Di Francesco, IUSS, Pavia (SINe President)
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Sarah Songhorian, Vita-Salute San Raffaele University

Wednesday – May 15th

10:00 **Registration**

10:30 **Opening Remarks**

11:00 – 13:00 ***New Frontiers of the Concept of Brain Death and the New Technologies Available***

Chair: Matteo Cerri (Bologna University)

Adrian M. Owen (Western University Canada) – *Into the Grey Zone: Detecting Covert Conscious Awareness in Behaviourally Non-Responsive Individuals*

Carlo Ferrarese (University of Milano-Bicocca) – *Early Diagnosis and Treatment of Cognitive Impairment: An Ethical Issue*

13:00 – 14:30 Lunch

14:30 – 16:00 ***Parallel session – Contributed papers***

Room 1 – Newton

Moral cognition – Neurolaw

Chair: Roberto Mordacci (Vita-Salute San Raffaele University)

Alejandro Rosas (Universidad Nacional de Colombia), David Aguilar (Universidad Nacional de Colombia) – *Extreme Time-Pressure Reveals Utilitarian Intuitions in Sacrificial Dilemmas*

Federico Bina (Vita-Salute San Raffaele University) – *Does Distance Really Matter in Ethics?*

Leda Tortora (“Sapienza” University of Rome), Stefano Ferracuti (“Sapienza” University of Rome), Enrico

Tronci (“Sapienza” University of Rome), Gerben Meynen (Utrecht University) – *Ethical Issues Concerning Brain-Reading A.I. in Criminal Justice and Forensic Psychiatry*

Room 2 – Jenner

Free will and consciousness – Genetics and the brain

Chair: Michela Balconi (Catholic University of the Sacred Heart, Milan)

Muriel Leuenberger (University of Basel) – *Narrative Authenticity and Deep Brain Stimulation*

Samuel Lee (New York University) – *My Brain Did Make Me Do It, but Only Because My Mind Did*

Carlo Lai (“Sapienza” University of Rome), Emiliano Loria (FINO – University of Genoa), Gaia Romana

Pellicano (“Sapienza” University of Rome) – *Neurosciences and Epigenetics in Outcome Research*

Room 3 – Koch

Philosophy of cognitive science

Chair: Stefano Cappa (IUSS, Pavia)

Shimo Sraman (Buddha Bhoomi Foundation) – *Dealing Depression with Cognitive Therapy and Mindfulness*

Marco Viola (University of Turin) – *Cognitive Functions and Neural Structures: Population-Bounded Mappings*

Alfredo Tomasetta (IUSS, Pavia) – *Phenomenological Advice to 4E Cognitive Scientists*

16:00 – 16:30 Coffee Break

16:30 – 18:00 **Lectio Magistralis**

The Impact of Neuroscience on Society: The Neuroethics of 'Smart Drugs'

Barbara Sahakian (University of Cambridge)

awarded with the SIne Medal by Pietro Pietrini (Scuola IMT, Lucca)

Thursday – May 16th

9:30 – 10:30 **Invited talk**

Chair: Hank Greely (Stanford University)

Francesco Guala (University of Milan) – *The Ethics and Politics of Nudging*

10:30 -11:00 Coffee Break

11:00 –12:30 **Parallel session – Contributed papers**

Room 1 – Newton

Neuroenhancement

Chair: Andrea Lavazza (Centro Universitario Internazionale, Arezzo)

Alexandre Erlar (The Chinese University of Hong Kong) – *Biomedical Moral Enhancement, Individual Identity, and Valuable Mental Dispositions*

Davide Crivelli (Catholic University of the Sacred Heart, Milan), Giulia Fronda (Catholic University of the Sacred Heart, Milan), Michela Balconi (Catholic University of the Sacred Heart, Milan) – *Beyond Mental Training: Early Effects of Combined Mindfulness-Neurofeedback Practice in Sport*

Giulia Fronda (Catholic University of the Sacred Heart, Milan), Davide Crivelli (Catholic University of the Sacred Heart, Milan), Michela Balconi (Catholic University of the Sacred Heart, Milan) – *Neurocognitive Enhancement at Workplace: The potential of a Technology-Supported Neurofeedback Training Program*

Room 2 – Salk

Free will and consciousness – Neuroenhancement – Philosophy of cognitive science

Chair: Francesca Pongiglione (Vita-Salute San Raffaele University)

Giuseppe Lo Dico (Catholic University of the Sacred Heart, Milan) – *From Experimental Psychology to Folk Psychology (and Back)*

Gianfranco Pellegrino (LUISS, Rome), Mirko Daniel Garasic (LUISS, Rome; Scuola IMT, Lucca) – *Neuroethics and the Ethics of AI. Enhancing and Extending Humanity*

Kriszta Sajber (Misericordia University) – *Implanted into the Self: BMIs and Bodily Integrity*

Room 3 – Asclepio

Issues arising from clinical applications of technological innovations – Genetics and the brain – Neuroeconomy, neuropolitics, and neuromarketing

Chair: Luigi Pastore (Bari University)

Francesca Meroni (University of Milan), Maria Elide Vanutelli (University of Milan), Giulia Fronda (Catholic University of the Sacred Heart, Milan), Michela Balconi (Catholic University of the Sacred Heart, Milan), Claudio Lucchiari (University of Milan) – *The Role of Prefrontal Cortex in Purchasing Decision-Making Context*

Daniela Ovidia (CFNNS Lab, University of Pavia; NeuroMi; Center for Ethics in Science and Journalism), Maria Laura Fiorina (CFNNS Lab, University of Pavia), Gerardo Salvato (CFNNS Lab, University of Pavia; NeuroMi), Marco Annoni (CFNNS Lab, University of Pavia; ITB-CNR (Rome)), Gabriella Bottini (CFNNS Lab, University of Pavia; NeuroMi) – *Predicting Crimes Using Agent Based Modelling: An Ethical and Societal Impact Assessment from the PROTON Project*

Sara Palumbo (University of Pisa), Veronica Mariotti (University of Pisa), Teresa Anastasio (University of Pisa), Stefano Vellucci (University of Pisa), Alessio Chiarelli (University of Pisa), Klizia Antonelli (University of Pisa), Giuseppina Rota (Azienda Ospedaliero-Universitaria Pisana), **Silvia Pellegrini** (University of Pisa) – *Searching for Genes by Environment Interactions that Predispose to Prosocial Behavior: The Role of COMT and DRD4 Allelic Variants*

12:30 – 14:30 Lunch

14:30 – 16:00 **Parallel session – Contributed papers**

Room 1 – Newton

Issues arising from clinical applications of technological innovations

Chair: Vittorio Alessandro Sironi (University of Milano-Bicocca)

Eugenia Stefanello (University of Padua) – *Let's not get Emotional: A Neuroethical Perspective on Clinical Empathy*

Frederic Gilbert (University of Tasmania) – *Cyborging Human Control: Supplementing or Supplanting Human Agency?*

Georg Starke (University of Basel), Eva de Clercq (University of Basel), Bernice Elger (University of Basel; University Center of Legal Medicine of Geneva and Lausanne, Geneva) – *In Transparency we Trust: Challenges for Applied Machine Learning in Neuroscience*

Room 2 – Salk

Philosophy of cognitive science

Chair: Elisabetta Sacchi (Vita-Salute San Raffaele University)

Luca Casartelli (Scientific Institute IRCCS E.Medea - Bosisio Parini) – *Stability and Flexibility during*

Sensory/Perceptual Dynamics: Theoretical and Clinical Insights from Our Brain

Arianna Beghetto (Vita-Salute San Raffaele University) – *Is the Hypothesis of the Extended Mind Conceivable within the Framework of Phenomenal Intentionality?*

Fabrizio Calzavarini (LLC, University of Turin; University of Bergamo) – *Conceptual Format and the Supramodal Brain*

Room 3 – Asclepio

Philosophy of cognitive science

Chair: Andrea Lavazza (Centro Universitario Internazionale, Arezzo)

Alberto Termine (Vita-Salute San Raffaele University) – *Is the Brain a Bayesian Machine?*

Giulia Piredda (IUSS, Pavia) – *Toward a notion of situated affective self?*

Shereen Chang (University of Pennsylvania) – *What Can We Learn from How a Parrot Learns to Speak Like a Human? A Model for Referential Communication Learning*

16:00 – 16:30 Coffee Break

16:30 – 18:00 **Lectio Magistralis**

Free Will and Neuroscience: On Generalizing, Consciousness, Souls, and Restrictivism

Alfred Mele (Florida State University)

awarded with the SINE Medal by Mario De Caro (Roma Tre University – Tufts University)

18:00 SINE Meeting

20:30 Social Dinner

Friday – May 17th

9:30 – 10:30 **Invited talk**

Chair: Andrea Lavazza (Centro Universitario Internazionale, Arezzo)

Arleen L. Salles (Uppsala University) – *“What Makes Us Human”: The Challenge Ahead*

10:30 – 11:00 Coffee Break

11:00 – 12:00 **Invited talk**

Chair: Silvia Pellegrini (University of Pisa)

Raffaella Rumiati (SISSA, Trieste) – *Cognitive and non Cognitive Skills in Higher Education*

12:00 – 14:00 Lunch

14:00 – 15:30 **Parallel session – Contributed papers**

Room 1 – Newton

Moral cognition

Chair: Sara Dellantonio (UniTrento Digital University)

Federico Manzi (Catholic University of the Sacred Heart, Milan), Cinzia Di Dio (Catholic University of the Sacred Heart, Milan), Davide Massaro (Catholic University of the Sacred Heart, Milan), Shoji Itakura (Kyoto University), Takayuki Kanda (Kyoto University), Hiroshi Ishiguro (Osaka University), Antonella Marchetti (Catholic University of the Sacred Heart, Milan) – *What Have You Done? Moral Evaluation of Human and Robot Victimized in Japanese Preschoolers*

Chiara Lucifora (University of Messina), Giorgio Mario Grasso (University of Messina), Pietro Perconti (University of Messina), Alessio Plebe (University of Messina) – *Moral Dilemmas in Self-Driving Cars*
Carla Bagnoli (University of Modena-Reggio Emilia) – *Emotional Contagion, Emotional Resonance, and Responsibility for Shared Agency*

Room 2 – Jenner

Moral cognition

Chair: Giulia Piredda (IUSS, Pavia)

Claudia Navarini (European University of Rome) – *The Neurobiology of Virtue and the Challenge to Moral Development*

Sofia Bonicalzi (Ludwig Maximilian University of Munich), Nima Khalighinejad (University of Oxford), Patrick Haggard (University College London) – *Picking and Choosing. An ERP Study of the Neural Correlates of Meaningless and Meaningful Actions*

Michela Balconi (Catholic University of the Sacred Heart, Milan), **Giulia Fronza** (Catholic University of the Sacred Heart, Milan), Francesca Meroni (University of Milan), Maria Elide Vanutelli (University of Milan), Claudio Lucchiari (University of Milan) – *Decision-Making in Economic and Moral Contexts. Evidence from Social Neuroscience*

Room 3 – Bacone

Neurolaw

Chair: Federico Gustavo Pizzetti (University of Milan)

Giovanna Parmigiani (“Sapienza” University of Rome), Gabriele Mandarelli (“Sapienza” University of Rome), Gerben Meynen (Utrecht University), Stefano Ferracuti (“Sapienza” University of Rome) – *A New Instrument to Guide and Support Insanity Evaluations*

Cristina Scarpazza (University of Padua), Alessio Miolla (University of Padua), Giuseppe Sartori (University of Padua) – *Insanity Evaluation of Personality Disorders: Emerging Neuroscientific Perspectives*
Paolo Sommaggio (University of Trento), **Caterina Fabiani** (University of Trento) – *Is Cognitive Liberty the Watershed between Old and New Moral Enhancers?*

15:30 – 16:30 **Invited talk**

Chair: Massimo Reichlin (Vita-Salute San Raffaele University)

Julian Savulescu (University of Oxford) – *Motivational Enhancement and Praiseworthiness*

Organizing Secretary

Sarah Songhorian, Vita-Salute San Raffaele University

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News and information about the Conference are available on the SINE website: <https://societadineuroetica.wordpress.com/>