

Final Program

**2nd International Summit on
Civil, Structural and
Environmental Engineering**

&

**2nd International Summit on
Gravitation, Astrophysics
and Cosmology**

ISCSEE2024

ISGAC2024

March 18-19, 2024



Florence, Italy



Day 01 | March 18, 2024

09:00-09:30

On Spot Registrations

Chair

Enzo Siviero, Rector of the eCampus University, Italy

Co-Chair

Ibrahim G. Shaaban, Head of Civil Engineering, School of Computing and Engineering, University of West London, UK

09:30-10:10

P Title: Silica Fume and Crumb Rubber as Partial Replacement of Cement and Fine Aggregate Concrete

Ibrahim G. Shaaban, Head of Civil Engineering, School of Computing and Engineering, University of West London, UK

10:10-10:50

P Title: General Relativity, Dragging of Inertial Frames and the LARES and LARES 2 Space Missions

Ignazio Ciufolini, School of Aerospace Engineering, Sapienza University of Rome, Italy

10:50-11:05

Refreshment Break

11:05-11:45

P Title: The Secret of Planets' Perihelion Between Newton and Einstein

Christian Corda, Editor-in-Chief-Journal of High Energy Physics Gravitation and Cosmology, USA

11:45-12:25

P Title: Spotlight on Mechanical Properties of Autogenic Self-Healing of Concrete

Ibrahim G. Shaaban, Head of Civil Engineering, School of Computing and Engineering, University of West London, UK

12:25-13:05

P Title: Design and Construction of Tall Buildings: A Sustainability Perspective

Abbas Aminmansour, Fellow-Council on Tall Buildings and Urban Habitat, University of Illinois, USA

13:05-14:05

Group Photo

Lunch Break

14:05-14:35

K

Title: *MULTIVERSE: How Far is a Twin Universe with Identical Last 100 years History?*

Andrew Radosz, *Wroclaw University of Science and Technology, Poland*

14:35-15:05

K

Title: *Extraction of Silicon from Construction Debris Using the Alkaline Fusion Technique*

Nevin Karamahmut Mermer, *R&D Assistant Manager-Kalekim Construction Chemicals Co., Turkey*

15:05-15:35

K

Title: *Thermodynamic Properties of Hot β -Equilibrium Hadronic and Quark Matter in the Neutrino-Trapped Regime*

Grigor Alaverdyan, *Yerevan State University, Armenia*

15:35-15:50

Refreshment Break

15:50-16:20

K

Title: *About Some Generalised Reissner-Nordstrom Spacetimes*

Orchidea Maria Lecian, *Sapienza University, Italy*

16:20-16:50

K

Title: *The Theory of the Living Body Special Mass*

Gengxin Xie, *Institute of Advanced Technology Chongqing University, China*

Sessions

Gravitational Physics and Lensing, Construction Technology & Engineering, Architecture & Urban Planning

Sessions Chair

Orchidea Maria Lecian, *Sapienza University, Italy*

16:50-17:10

I

Title: *Vulcan and Anomalous Displacement of Mercury's Perihelion*

Souren Pogossian, *University of Western Brittany, France*

17:10-17:30

I

Title: *Is the Universal Gravitation from the Attractive Force of the Magnetic Field?*

Mei Yin, *China*

17:30-17:50

I **Title:** *Lean and BIM Synergy in the Design Phase: Auto-Generation and Evaluation of Thermal Alternatives*

Karim EL MOUNLA, CESI LINEACT, France

17:50-18:10

I **Title:** *From Words to Walls: Revolutionising Architectural Design with Text-to-3D Generative AI*

Kawsar Arzomand, Brunel University London, UK

18:10-18:30

I **Title:** *Accelerometers Complete Feynman's Gravity Lecture*

David Levitt, Stochastic Labs, USA

****Closing the Conference for Day 1****

Day 02 | March 19, 2024

09:00-09:30

On Spot Registrations

Chair

Brunello Tirozzi, University La Sapienza, Italy

Co-Chair

Andrew Radosz, Wroclaw University of Science and Technology, Poland

09:30-10:10

P Title: BRIDGES AND UNESCO

Enzo Siviero, Rector of the eCampus University, Italy

10:10-10:50

P Title: Mathematical Problems of Neural Networks

Brunello Tirozzi, University La Sapienza, Italy

10:50-11:05

Refreshment Break

11:05-11:45

P Title: Reciprocally Supported Elements (RSE) Space Structure Configurations

Joseph P. Rizzuto, Head-School of the Built Environment and Geography, Faculty of Engineering, Computing and the Environment, Kingston University, UK

11:45-12:25

P Title: Structural Integrity Assessment and Retrofitting for Holy Trinity Cathedral Building

Habtamu Getu Mihret, CEO-Menen Engineering PLC, Addis Ababa, Ethiopia

12:25-13:05

P Title: Black Holes: Thermodynamics and Geometry

Ahmed Daassou, Deputy Director-Cadi Ayyad University, Morocco

13:05-14:05

Group Photo

Lunch Break

14:05-14:35

K Title: Transmission Line System Dynamic Response Under Synoptic and Non-Synoptic Winds

Amal Elawady, Florida International University, USA

14:35-15:05

K Title: Quartic Equation and Proportion of Physical Reality

František Lomoz, Josef Sadil's Observatory, Czech Republic

15:05-15:35	K	Title: <i>Neutrino Astronomy by Tau Airshower on Earth and by Muon Secondaries from the Moon</i>
		Daniele Fargion , Rome University, Italy
15:35-15:50	Refreshment Break	
15:50-16:20	K	Title: <i>Thermal Preconditioning of Carbon FRCM Strips on a Masonry Support</i>
		Andrea Nobili , University of Modena and Reggio Emilia, Italy
16:20-16:50	K	Title: <i>Zero-Gravity as Game-Changer to Extend Human Longevity and Advance Knowledge on the Universe</i>
		Carlo Viberti , President-Space Land Africa, Italy
Sessions	Multi-Messenger Astronomy, Gravitational Physics and Lensing, Dark Matter and Dark Energy Probes, Modified Gravity Theories	
Sessions Chair	Orchidea Maria Lecian , Sapienza University, Italy	
16:50-17:10	I	Title: <i>Searching for Fast Infrared Bursts</i>
		Alessandro Drago , University of Florence, Italy
17:10-17:30	I	Title: <i>A Kinematic Analysis of WIMP Dark Matter in Milky Way Satellites</i>
		Raees Noorbhai , Wits Centre for Astrophysics, South Africa
17:30-17:50	I	Title: <i>The Effects of Gravitational Wave Recoil on Black Holes</i>
		Karan Chawla , Ashoka University, India
17:50-18:10	I	Title: <i>On a Possible Solution of Nordstrom-Einstein Paradox referring to the Nullity of Stress-Energy Tensor Invariant of EM field and Consequences</i>
		Constantin Sandu , National Research & Development Institute for Gas Turbines-COMOTI, Romania
POSTER	P01	Title: <i>The Role of Strategic Environmental Assessment in Precautionary Protection of the Environment During the Development of Renewable Energy Projects</i>
		Boško Josimović , Institute of Architecture, Urban and Spatial Planning of Serbia, Serbia
VIDEO	V01	Title: <i>Insight into Growth Rate of the Universe from Galaxy Correlation Functions</i>
		Siddharth Satpathy , Element Energy, USA
Closing the Conference for Day 2		

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NEXT EVENTS

**3rd International Summit on
Gravitation, Astrophysics and Cosmology**

&

**3rd International Summit on
Civil, Structural and Environmental Engineering**

March 17-19, 2025 | Valencia, Spain