

# 2<sup>ND</sup> INTERNATIONAL CONFERENCE ON APPLIED INTELLIGENCE AND INFORMATICS (AII2022)

Fostering Reproducibility of Research Results

1 - 3 SEPT 2022, REGGIO CALABRIA - ITALY



In collaboration with:



Space Systems  
Engineering Laboratory



THE INTERNATIONAL  
NEURAL NETWORK  
SOCIETY





## AI2022 Program

*Supported by:*





# AI2022 Program

## DAY 1: THURSDAY - SEPTEMBER 1, 2022

8.15	Shuttle Service from Piazza Indipendenza to Conference Venue*
8.30	Registration
9.00 - 9.30	Welcome Session
9.30 - 10.15	<p><b>Chair: Prof. Carlo Morabito</b>  <b>KEYNOTE: PROF. ALFONSO FARINA</b>          Consultant to Electronic Division, Leonardo SpA – Roma, Italy  <b>Title: Artificial Intelligence and Data Fusion Techniques applied to Space-based Global Maritime Surveillance. A look to deep learning and information from heterogeneous sensors</b></p>
10.15 - 11.00	<p><b>Workshop: The use of Artificial Intelligence for Space Applications</b>  <b>Panel Discussion: Artificial Intelligence for Space Applications</b>  <b>Chairs: Proff. Carlo Morabito, Roberto Furfaro</b>  <b>Panellists: Prof. Carlo Morabito (UNIRC), Prof. Roberto Furfaro (University of Arizona), Dr. Gabriella Arrigo (ASI), Dr. Marco Di Clemente (ASI), Dr. Sabrina Ricci (ESA-ESRIN), Dr. Andrea Pietropaolo (Thales Alenia Space), Dr. Pietro Ferraro (CNR-ISASI)</b></p>
11.00 – 11.20	Coffee Break
11.20 – 13.05	<p><b>Workshop: The use of Artificial Intelligence for Space Applications</b>  <b>Chair: Dr. Marco Di Clemente</b>          Paper IDs: 15, 17, 19, 23, 24, 33, 40</p>
11.20 – 11.35	<p>ID 15          YOLO v4 Based Algorithm for Resident Space Object Detection and Tracking  <i>Marco Mastrofini, Gilberto Goracci, Ivan Agostinelli, Fabio Curti</i></p>
11.35 – 11.50	<p>ID 17          Overview of Meta-Reinforcement Learning Methods for Autonomous Landing Guidance  <i>Andrea Scorsoglio, Luca Ghilardi, Roberto Furfaro</i></p>
11.50 – 12.05	<p>ID 19          Hardware-in-the-loop simulations of future autonomous space systems aided by artificial intelligence  <i>Andrea Carbone, Dario Spiller, Mohamed Salim Farissi, Sarathchandrakumar T. Sasidharan, Francesco Latorre, Fabio Curti</i></p>
12.05 – 12.20	<p>ID 23          Distribution Shift Metric for Performance Evaluation of Behavioral Cloning Applied to the Fuel-Optimal Landing Problem  <i>Omkar S. Mulekar, Riccardo Bevilacqua, Hancheol Cho</i></p>
12.20 – 12.35	<p>ID 24          Fault Detection Exploiting Artificial Intelligence in Satellite Systems  <i>Nicola Ferrante, Gianluca Giuffrida, Pietro Nannipieri, Alessio Bechini, Luca Fanucci</i></p>
12.35 – 12.50	<p>ID 33          An Overview of X-TFC Applications for Aerospace Optimal Control Problems  <i>Enrico Schiassi, Andrea D'Ambrosio, Roberto Furfaro</i></p>
12.50 – 13.05	<p>ID 40          Innovative ML-based methods for automated on-board spacecraft anomaly detection  <i>Carlo Ciancarelli, Eleonora Mariotti, Francesco Corallo, Salvatore Cognetta, Livia Manovi, Alex Marchioni, Mauro Mangia, Riccardo Rovatti, Gianluca Furano</i></p>
13.05 – 14.05	Lunch
14.05 – 15.50	<p><b>Workshop: The use of Artificial Intelligence for Space Applications</b>  <b>Chair: Dr. Andrea Pietropaolo</b>          Paper IDs: 44, 45, 68, 81, 97, 100, 108</p>
14.05 – 14.20	<p>ID 44          Deep Learning for Navigation of Small Satellites about Asteroids: an Introduction to the DeepNav Project  <i>Carmine Buonagura, Mattia Pugliatti, Vittorio Franzese, Francesco Topputo, Aurel Zeqaj, Marco Zannoni, Mattia Varile, Ilaria Bloise, Federico Fontana, Francesco Rossi, Lorenzo Feruglio</i></p>
14.20 – 14.35	<p>ID 45          Object recognition algorithms for the Didymos binary system  <i>Mattia Pugliatti, Felice Piccolo, Francesco Topputo</i></p>
14.35 – 14.50	<p>ID 68          Investigating Vision Transformers for Bridging Domain Gap in Satellite Pose Estimation  <i>Alessandro Lotti, Dario Modenini, Paolo Tortora</i></p>
14.50 – 15.05	<p>ID 81          Earth Observation Big Data exploitation for water reservoirs continuous monitoring: the potential of Sentinel-2 data and HPC  <i>Roberta Ravanelli, Paolo Mazzucchelli, Valeria Belloni, Filippo Bocchino, Laura Morselli, Andrea Fiorino, Fabio Gerace, Mattia Crespi</i></p>



## AIIE2022 Program

15.05 – 15.20	ID 97 Retrieval of marine parameters from hyperspectral satellite data and machine learning methods <i>Federico Serva, Luigi Ansalone, Pierre Philippe Mathieu</i>
15.20 – 15.35	ID 100 Cooperative Lunar Site Preparation and Open Pit Resource Extraction Using Ground Robots <i>Jekan Thangavelautham</i>
15.35 – 15.50	ID 108 A Supervised Learning-based Approach to Maneuver Detection Through TLE Data Mining <i>Riccardo Cipollone, Nugraha Setya Ardi, Pierluigi Di Lizia</i>
<b>15.50 – 16.10</b>	<b>Coffee Break</b>
<b>16.10 – 18.10</b>	<b>Track: Application of AI and Informatics in Pattern Recognition Paper</b> <b>Chair: Prof. Marley Vellasco</b> Paper IDs: 43, 69, 82, 66, 36, 71, 47, 38, 51
16.10 – 16.25	ID 43 Identifying Colluding Actors in Social Communities by Reputation Measures <i>Mariantonia Cotronei, Sofia Giuffrè, Attilio Marciandò, Domenico Rosaci, Giuseppe M. L. Sarnè</i>
16.25 – 16.40	ID 82 Applied Enhanced Q-NAS for COVID-19 Detection in CT Images <i>Julia Noce, Gianella Chantong, Gustavo Jauregui, Roberto Mogami, Alexandra Monteiro, Karla Figueiredo, Marley Vellasco</i>
16.40 – 16.55	ID 66 Beware the Sirens: Prototyping an Emergency Vehicle Detection System for Smart Cars <i>Michela Cantarini, Leonardo Gabrielli, Lucia Migliorelli, Adriano Mancini, Stefano Squartini</i>
16.55 – 17.10	ID 36 Identifying synthetic voices qualities for conversational agents <i>Marialucia Cuciniello, Terry Amorese, Gennaro Cordasco, Stefano Marrone, Fiammetta Marulli, Filippo Cavallo, Olga Gordeeva, Zoraida Callejas Carrión, Anna Esposito</i>
17.10 – 17.25	ID 71 Detection of Autism Spectrum Disorder by a Fast Deep Neural Network <i>Francesco Di Luzio, Federica Colonnese, Antonello Rosato, Massimo Panella</i>
17.25 – 17.40	ID 47 A graph-based approach to detect anomalies based on shared attribute values <i>Steffen Brauer, Marco Fisichella, Gianluca Lax, Carlo Romeo, Antonia Russo</i>
17.40 – 17.55	ID 38 An FPGA-based Hardware Accelerator for the k-Nearest Neighbor Algorithm Implementation in Wearable Embedded Systems <i>Antonio Borelli, Fanny Spagnolo, Raffaele Gravina, Fabio Frustaci</i>
17.55 – 18.10	ID 51 MEMS and AI for the Recognition of Human Activities on IoT Platforms <i>Luigi Bibbò, Massimo Merenda, Francesco Della Corte, Riccardo Carotenuto, Vincenzo Francesco Romeo</i>
<b>16.10 – 17.15</b>	<b>Track: Application of AI and Informatics in Network, Security, and Analytics</b> <b>Chair: Prof. Shamim Kaiser</b> Paper IDs: 35, 79, 96115, 89, 90 <b>ROOM B</b>
16.10 – 16.25	ID 35 A novel approach to identifying DDoS traffic in the Smart Home network via Exploratory Data Analysis <i>Asmau Wali, Oluwasegun Apejoye, Thejavathy Raja, Jun He, Xiaoqi Ma</i>
16.25 – 16.40	ID 79 Indoor Positioning and Navigation using Bluetooth Low Energy and Cloud Service in Healthcare Perspective <i>K Shayekh Ebne Mizan, M Shamim Kaiser, Milon Biswas</i>
16.40 – 16.55	ID 96115 Evaluation of Galvanic Skin Response (GSR) Signals Features for Emotion Recognition <i>Kuryati Kipli, Aisya Amelia Abdul Latip, Kasumawati Lias, Norazlina Bateni, Salmah Mohamad Yusoff, Jamaah Suud, M.A. Jalil, Kanad Ray, M Shamim Kaiser, Mufti Mahmud</i>
16.55 – 17.10	ID 89 Identification of Crown and Rump in First-Trimester Ultrasound Images using Deep Convolutional Neural Network <i>Samuel Sutton, Mufti Mahmud, Rishi Singh, Luis Yovera</i>
17.10 – 17.25	ID 90 A Hybrid Deep Learning System to detect face-mask and monitor social distance





# AII2022 Program

*Lutfun Nahar, Nanziba Basnin, Mohammad Shahadat Hossain, Karl Andersson*

<b>17.25 – 18.10</b>	<p><b>Chair: Prof. Mufti Mahmud</b>  <b>KEYNOTE: PROF. CARLOS COELLO COELLO</b>          Professor at the Center for Research and Advanced Studies del National Polytechnic Institute, Mexico  <b>Title: Evolutionary Multi-Objective Optimization and The Quest for Reproducibility</b></p> <p style="color: red; font-weight: bold;">ROOM B</p>
<b>18.15</b>	<p><b>End of Day 1</b>  <b>Shuttle Service from Conference Venue to Piazza Indipendenza*</b></p>
<b>20.30</b>	<p><b>Social Dinner at</b>  <b>L'A Gourmet L'Accademia</b>  <i>Via Largo Cristoforo Colombo, 6, 89125 Reggio Calabria</i></p>

\*Local information at <http://neurolab.ing.unirc.it/events/2022/aai2022/>

## DAY 2: FRIDAY - SEPTEMBER 2, 2022

<b>8.15</b>	<b>Shuttle Service from Piazza Indipendenza to Conference Venue*</b>
<b>8.30</b>	<b>Registration</b>
<b>9.00 - 9.45</b>	<p><b>Chair: Dr. Sabrina Ricci</b>  <b>KEYNOTE: DR. PIERRE PHILIPPE MATHIEU</b>          Earth Observation Future Systems Department, European Space Agency (ESA), Italy  <b>Title: The rise of AI for Space</b></p>
<b>9.45 – 10.45</b>	<p><b>Workshop: The use of Artificial Intelligence for Space Applications</b>  <b>Chair: Dr. Sabrina Ricci</b>          Paper IDs: 12, 16, 18, 96101</p>
9.45 – 10.00	ID 12 SAR Image Formation: Conventional and AI-based approaches on Sentinel-1 Raw Products <i>Gianluca Maria Campagna, Luca Manca</i>
10.00 – 10.15	ID 16 GPU@SAT: a general-purpose programmable accelerator for on board data processing and satellite autonomy <i>Roberto Ciardi, Gianluca Giuffrida, Gionata Benelli, Christian Cardenio, Riccardo Maderna</i>
10.15 – 10.30	ID 18 Satellite IoT for TT&C and Satellite Identification <i>Giuseppe D'Angelo, JP Mediano-Alameda, Riccardo Andreotti</i>
10.30 – 10.45	ID 96101 A Machine learning approach for Monitoring of GNSS signal quality in Spaceborne receivers: Evil waveform and RF threats <i>Andrea Emmanuele, Ruggero Colombo, Stefano Zago, Mirko Salaris</i>
<b>10.45 - 11.05</b>	<b>Coffee Break</b>
<b>11.05 – 12.20</b>	<p><b>Workshop: The use of Artificial Intelligence for Space Applications</b>  <b>Chair: Prof. Roberto Furfaro</b>          Paper IDs: 42, 72, 103, 77, 26</p>
11.05 – 11.20	ID 42 SINAV an ASI study of future AI applications on spatial rovers <i>Piergiorgio Lanza, Gabriele Berardi, Patrick Roncagliolo, Giuseppe D'Amore</i>
11.20 – 11.35	ID 72 Detection of Clouds and Cloud shadows on Sentinel-2 Data Using a CNN <i>Bram Eijgenraam, Simone Mancon</i>
11.35 – 11.50	ID 103 Canopy fire effects estimation using Sentinel-2 imagery and deep learning approach. A case study on the Aspromonte National Park <i>Giuseppe Modica, Giandomenico De Luca</i>
11.50 – 12.05	ID 77 PRISMA Hyperspectral Image Segmentation with U-Net Convolutional Neural Network using Singular Value Decomposition for Mapping Mining Areas



# AI2022 Program

12.05 – 12.20	<p><i>Andrea Dosi, Michele Pesce, Anna Di Nardo, Vincenzo Pafundi, Rita Chirico, Lorenzo Ammirati, Nicola Mondillo, Giuseppe Longo</i> ID 26</p> <p>RobDT: AI-enhanced Digital Twins for Space Exploration Robotic Assets <i>Marco Bozzano, Riccardo Bussola, Marco Cristoforetti, Srajan Goyal, Martin Jonáš, Konstantinos Kapellos, Andrea Micheli, Davide Soldà, Stefano Tonetta, Christos Tranoris, and Alessandro Valentini</i></p>
12.20 – 13.20	<p><b>Special Session: AI-based Time Series Analysis for Energy-related Applications and Systems</b> <b>Chair: Prof. Massimo Panella</b> Paper IDs: 37, 48, 39, 76</p>
12.20 – 12.35	<p>ID 37 An Indirect Approach to Forecast Produced Power on Photovoltaic Plants under Uneven Shading Conditions <i>Valentina Lucaferri, Martina Radicioni, Francesco De Lia, Antonino Laudani, Roberto Lo Presti, Gabriele Maria Lozito, Francesco Riganti Fulginei, Massimo Panella, Riccardo Schioppo</i></p>
12.35 – 12.50	<p>ID 48 Weakly Supervised Transfer Learning for Multi-label Appliance Classification <i>Giulia Tanoni, Emanuele Principi, Luigi Mandolini, Stefano Squartini</i></p>
12.50 – 13.05	<p>ID 39 Designing Low-Power and High-Speed FPGA-based Binary Decision Tree Hardware Accelerators <i>Roman Huzyuk, Fanny Spagnolo, Fabio Frustaci</i></p>
13.05 – 13.20	<p>ID 76 Nonexclusive Classification of Household Appliances by Fuzzy Deep Neural Networks <i>Federico Succetti, Antonello Rosato, Massimo Panella</i></p>
13.20 – 14.20	<p><b>Lunch</b></p>
14.20 – 15.05	<p><b>Chair: Prof. Gianluca Lax</b> <b>KEYNOTE: PROF. FRANCESCO BUCCAFURRI</b> University Mediterranea of Reggio Calabria, Italy <b>Title: Internet Censorship Resistance</b></p>
15.05 – 16.20	<p><b>Chairs: Dr. Giovanni Morabito</b> <b>INDUSTRY SESSION</b> <i>Stefano De Rossi, Aubay</i> <i>Valeria Tomaselli, ST Microelectronics</i> <i>Giuseppe Morabito, TIM</i> <i>Corrado Felini, Goboservice</i></p>
16.20 – 16.40	<p><b>Coffee Break</b></p>
16.40 – 18.10	<p><b>Track: Application of AI and Informatics in Healthcare</b> <b>Chair: Dr. Nadia Mammone</b> Paper IDs: 10, 14, 49, 73, 70, 52</p>
16.40 – 16.55	<p>ID 10 Handwriting and Drawing for Depression Detection: A Preliminary Study <i>Gennaro Raimo, Michele Buonanno, Massimiliano Conson, Gennaro Cordasco, Marcos Faundez-Zanuy, Stefano Marrone, Fiammetta Marulli, Alessandro Vinciarelli, Anna Esposito</i></p>
16.55 – 17.10	<p>ID 14 Explainable Deep Learning for Alzheimer Disease Classification and Localisation <i>Marcello Di Giammarco, Giacomo Iadarola, Fabio Martinelli, Francesco Mercaldo, Fabrizio Ravelli, Antonella Santone</i></p>
17.10 – 17.25	<p>ID 49 ML-based Radiomics analysis for Breast Cancer classification in DCE-MRI <i>Francesco Prinzi, Alessia Orlando, Salvatore Gaglio, Massimo Midiri, Salvatore Vitabile</i></p>
17.25 – 17.40	<p>ID 73 Explainable deep learning classification of respiratory sound for telemedicine applications <i>Michele Lo Giudice, Nadia Mammone, Cosimo Ieracitano, Umberto Aguglia, Danilo Mandic, Francesco Carlo Morabito</i></p>
17.40 – 17.55	<p>ID 70 Toward an Interoperable Catalogue of Multimodal Depression-related Data <i>Terry Amorese, Gennaro Cordasco, Giovanni D'Angelo, Maria Stella de Biase, Michele Di Giovanni, Anna Esposito, Claudia Greco, Stefano Marrone, Fiammetta Marulli, Laura Verde</i></p>
17.55 – 18.10	<p>ID 52 Decoding motor imagery from EEG signals through a novel deep 3D Convolutional Neural Network approach <i>Nadia Mammone et al.</i></p>
16.40 – 18.10	<p><b>Track: Application of AI and Informatics in Healthcare</b> <b>Chair: Prof. Shamim Kaiser</b> Paper IDs: 91, 96105, 54, 83, 86</p>



## AIIN2022 Program

ROOM B	
16.40 – 16.55	ID 91 A Non-Parametric Model for Forecasting Life Expectancy at Birth Using Gaussian Process <i>Pranta Biswas, Fahmida Islam Ireen, Fairouz Ahsan Nawar, Maisha Tabassum, Muhammad Arifur Rahman, Mufti Mahmud, M Shamim Kaiser, David J. Brow7</i>
16.55 – 17.10	ID 96105 A Pyramidal Approach for Emotion Recognition from EEG Signals <i>Thejaswini M S, G.Hemantha Kumar, VN Manjunath Aradhya</i>
17.10 – 17.25	ID 54 A Hybrid Transfer Learning and Segmentation approach for the Detection of Acute Lymphoblastic Leukemia <i>Jia Hau Ang, Nazia Hameed, Adam David Walker</i>
17.25 – 17.40	ID 83 iConDet2: An Improved Conjunctivitis Detection Portable Healthcare App Powered by Artificial Intelligence <i>Nilanjana Dutta Roy, Mufti Mahmud, Mainak Adak, Ayushman Chatterjee</i>
17.40 – 17.55	ID 86 Ensemble Classifiers for a 4-way Classification of Alzheimers Disease <i>Noushath Shaffi, Faizal Hajamohideen, Abdelhamid Abdessalam, Mufti Mahmud, Karthikeyan Subramanian</i>
<b>18.10 – 20.15</b>	<b>BEST PAPER AWARD CERIMONY</b>
<b>20.15</b>	<b>End of Day 2</b> <b>Shuttle Service from Conference Venue to Piazza Indipendenza*</b>

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## DAY 3: SATURDAY - SEPTEMBER 3, 2022

8.15	Shuttle Service from Piazza Indipendenza to Conference Venue*
8.30 - 9.00	Registration
9.00 – 11.00	<b>Workshop: The use of Artificial Intelligence for Space Applications</b> <i>Chair: Prof. Carlo Morabito</i> Paper IDs: 21, 22,102, 20, 25, 30, 41, 46
9.00 – 9.15	ID 21 Imbalanced data handling for deep learning-based autonomous Crater Detection Algorithms in Terrain Relative Navigation <i>Francesco Latorre, Dario Spiller, Fabio Curti</i>
9.15 – 9.30	ID 22 Comparative Analysis of Reinforcement Learning Algorithms for Robust Interplanetary Trajectory Design <i>Lorenzo Federici, Alessandro Zavoli, Roberto Furfaro</i>
9.30 – 9.45	ID 102 Machine learning for SAR processing <i>Oreste Trematerra, Quirino Morante</i>
9.45 – 10.00	ID 20 Deep Reinforcement Learning for Pin-Point Autonomous Lunar Landing: Trajectory Recalculation for Obstacle Avoidance <i>Giulia Ciabatti, Dario Spiller, Shreyansh Daftry, Roberto Capobianco, Fabio Curti</i>
10.00 – 10.15	ID 25 ISS Monocular Depth Estimation Via Deep Learning <i>Luca Ghilardi, Andrea Scorsoglio, Roberto Furfaro</i>
10.15 – 10.30	ID 30 AI and Penetration Testing: Optimization of the Ground Segment's Security <i>Alessandro Confido, Evidiki V. Ntagiou, Marcus Wallum</i>
10.30 – 10.45	ID 41 Explainable AI with the Information Bottleneck Principle <i>Gabriele Berardi, Piergiorgio Lanza</i>
10.45 – 11.00	ID 46 Toward an explainable Artificial Intelligence approach for ships detection from satellite imagery <i>Cosimo Ieracitano, Nadia Mammone, Francesco Carlo Morabito</i>



## AII2022 Program

<b>9.00 – 9.45</b>	<p><b>Panel Discussion: Applied Intelligence Towards Inclusiveness and Personalisation for Students with Learning Disabilities and Autism</b></p> <p><b>Chairs:</b> Prof. David Brown, Nottingham Trent University, UK, Dr. Mufti Mahmud, Nottingham Trent University, UK Prof. M Shamim Kaiser, Jahangirnagar University, Bangladesh, Mr. Karel Van Isacker, PhoenixKM BVBA, Belgium</p> <p style="text-align: center;"><b>ROOM B</b></p>
<b>11.00 – 11.20</b>	<b>Coffee Break</b>
<b>11.20 – 12.35</b>	<p style="text-align: center;"><b>Track: Emerging Applications of AI and Informatics</b></p> <p style="text-align: center;"><b>Chair:</b> Prof. Arifur Rahman Paper IDs: 3, 34, 56, 105, 96104</p> <p style="text-align: center;"><b>ROOM B</b></p>
11.20 – 11.35	<p>ID 3 A hybrid speed and radial distance feature descriptor using optical flow approach in HAR <i>Guanghui Hua, G. Hemantha Kumar, V. N. Manjunath Aradhya</i></p>
11.35 – 11.50	<p>ID 34 A Unsupervised Domain Adaptation Framework for Vestibular Schwannoma and Cochlea Segmentation <i>Wen Jye Chai, Nazia Hameed, Jeremie Clos</i></p>
11.50 – 12.05	<p>ID 56 A Novel Fuzzy Semi-supervised Learning Approach for the Classification of Colorectal Cancer (FSSL-CRCC) <i>Mohammad Shahadat Hossain, Sara Karim, Muhammed J. A. Patwary, Karl Andersson</i></p>
12.05 – 12.20	<p>ID 105 Impact Of Emotional State On Food Preference By Students: A Machine Learning Approach <i>Nadia Nasrin, Biraj Saha Aronya, Nusrat Jahan, Imran Mahmud, Afsana Begum</i></p>
12.20 – 12.35	<p>ID 96104 A Privacy-Preserving Federated-MobileNet for Facial Expression Detection from Images <i>Tapotosh Ghosh, Md. Hasan Al Banna, Md. Jaber Al Nahian, M. Shamim Kaiser, Mufti Mahmud, Shaobao Li, Nelishia Pillay</i></p>
12.35 – 12.50	<p>ID 69 The Effect of Drug on Neonatal-ICU Length of Stay: A Machine Learning Approach to Analyze <i>Farzana Islam Adiba, Mohammad Zahidur Rahman</i></p>
<b>11.20 – 13.05</b>	<p style="text-align: center;"><b>Track: Emerging Applications of AI and Informatics</b></p> <p style="text-align: center;"><b>Chair:</b> Dr. Cosimo Ieracitano, Prof. Mufti Mahmud Paper IDs: 96108, 75, 96109, 53, 96106, 6, 96107</p>
11.20 – 11.35	<p>ID 96108 Research Policies impact Dynamics for Balkanic countries in EU: new findings by deep learning and network analysis <i>Pasquale Fotia, Massimiliano Ferrara</i></p>
11.35 – 11.50	<p>ID 75 Television programs classification via Deep Learning using SSMI-CCN <i>Federico Candela, Francesco Carlo Morabito, Carmen Francesca Zagaria</i></p>
11.50 – 12.05	<p>ID 96109 Science Parks externalities on financial performance of small firms through business intelligence tools <i>Valentina Mallamaci, Massimiliano Ferrara</i></p>
12.05 – 12.20	<p>ID 53 Tackling the Linear Sum Assignment Problem with Graph Neural Networks <i>Carlo Aironi, Samuele Cornell, Stefano Squartini</i></p>
12.20 – 12.35	<p>ID 96106 A Novel Framework to Detect Anomalous Nodes to Secure Wireless Sensor Networks <i>Muhammad Raisuddin Ahmed, Thirein Myo, Badar Al Baroomi, M H Marhaban, M Shamim Kaiser, Mufti Mahmud</i></p>
12.35 – 12.50	<p>ID 6 Innovative Soft Computing Techniques for the Evaluation of the Mechanical Stress State of Steel Plates <i>Mario Versaci, Giovanni Angiulli, Paolo Crucitti, Filippo Laganà, Diego Pellicanò, Annunziata Palumbo</i></p>
12.50 – 13.05	<p>ID 96107 A novel Fuzzy dynamic expert system applied in economic with pandemic situations <i>Soheil Salahshoura, Ali Ahmadian, Massimiliano Ferrara</i></p>
<b>13.05</b>	<b>Closing of AII2022 Conference</b>
<b>13.05 – 14.05</b>	<b>Lunch</b>
<b>14.15</b>	<b>End of Day 3</b>
	<b>Shuttle Service from Conference Venue to Piazza Indipendenza*</b>

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# AI2022 Program

