



1st Capacity Building Workshop

AGENDA

Date

26-28.01, 2021

Venue

Online event

Organized by

Gheorghe Asachi Technical University of Iași, Romania

Fraunhofer Institute, Germany

University of Salamanca, Spain



Day 1: Tuesday, 26.01.2021

<p>9:00-10:00 (Germany, Spain)</p> <p>10:00-11:00 (Romania)</p>	<p>Opening Session</p> <p><i>Host: Nicolae Lucanu (Project Coordinator; Gheorghe Asachi Technical University of Iași, Romania)</i></p> <p>Click here to enter the online room</p>
	<p>➤ <i>All participants are welcome</i></p>
<p>10:00-12:00 (Germany, Spain)</p> <p>11:00-13:00 (Romania)</p>	<p>Session 1: ‘Comprehensive analysis of medical imaging’</p> <p><i>Host: David Pérez-González (University of Salamanca, Spain)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations:</p> <ul style="list-style-type: none"> - Professor Iulian CIOCOIU, Electronics, Telecommunications & Information Technology Faculty - Professor Lavinia FERARIU, Automatic Control and Computer Engineering Faculty - Professor Romeo CIOBANU, Electrical Engineering Faculty <p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Prof. José Luis LANCIEGO, Center for Applied Medical Research (CIMA), University of Navarra, Spain <p>Fraunhofer presentations:</p> <ul style="list-style-type: none"> - Dr. Stefan Wesarg, Visual Healthcare Technologies, Fraunhofer Institute for Computer Graphics Research IGD (Darmstadt) - Volker Bruns, Medical Image Processing, Fraunhofer Institute for Integrated Circuits IIS (Nürnberg) <p>ZI-Mannheim presentation:</p> <ul style="list-style-type: none"> - Dr. Emanuel Schwarz, Translational Bioinformatics in Psychiatry, ZI Mannheim <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Electrical Engineering Faculty (TUIASI) ➤ Fraunhofer Institute for Integrated Circuits (IIS), Germany ➤ Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Germany

	<ul style="list-style-type: none"> ➤ Central Institute of Mental Health (ZI-Mannheim), Germany ➤ Fraunhofer Institute for Computer Graphics Research (IGD), Germany ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
<p>15:30-17:30 (Germany, Spain)</p> <p>16:30-18:30 (Romania)</p>	<p>Session 2: ‘Olfaction in neurosciences and GC-IMS’</p> <p><i>Host: Mircea Tric (Fraunhofer Institute, Germany)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentation: - Professor Romeo CIOBANU, Electrical Engineering Faculty</p> <p>Fraunhofer presentation: - Dr. Jens Langejürgen, Biomedical Sensors, Fraunhofer Institute for Manufacturing Engineering and Automation IPA (Mannheim)</p> <p>University Medical Center Mainz presentation: - Professor Wolfgang Kelsch, Psychiatry and Psychotherapy, University Medical Center Mainz</p> <ul style="list-style-type: none"> ➤ Electrical Engineering Faculty (TUIASI) ➤ Industrial Design and Business Management Faculty (TUIASI) ➤ Department of Psychiatry and Psychotherapy, University Medical Center Mainz, Germany ➤ Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany
<p>17:30-19:30 (Germany, Spain)</p> <p>18:30-20:30 (Romania)</p>	<p>Session 3: ‘Separation, purification and detection of bacteria with magnetic beads’</p> <p><i>Host: Mircea Tric (Fraunhofer Institute, Germany)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentation: - Professor Lenuta KLOETZER, Chemical Engineering & Environmental Protection Faculty</p> <p>Fraunhofer presentation: - Dr. Mircea Tric, Biomedical Sensors, Fraunhofer Institute for Manufacturing Engineering and Automation IPA (Mannheim)</p> <ul style="list-style-type: none"> ➤ Chemical Engineering & Environmental Protection Faculty (TUIASI) ➤ Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany

<p>17:30-19:30 (Germany, Spain)</p> <p>18:30-20:30 (Romania)</p>	<p>Session 4: ‘Rehabilitation devices’</p> <p>Host: David Pérez-González (University of Salamanca, Spain)</p> <p>Click here to enter the online room</p>
	<p>TUIASI presentation:</p> <ul style="list-style-type: none"> - Professor Marian POBORONIUC, Electrical Engineering Faculty - Professor Ioan DOROFTEI, Mechanical Engineering Faculty <p>SPAIN presentation:</p> <ul style="list-style-type: none"> - Prof. José María AZORÍN, Systems Engineering and Automation Department, Miguel Hernández University, Spain - Dr. Ángel GIL AGUDO (MD-PhD), Biomechanics and Technical Aids Department, National Hospital for Paraplegics, Spain - Prof. Belén CURTO DIEGO <i>or</i> Prof. Vidal MORENO RODILLA, Group of Robotics and Society (GROUSAL), University of Salamanca, Spain - MOST LIKELY REPRESENTED BY FORMER GROUP: Dr. Javier NIETO BLASCO (MD-PhD), Rehabilitation Department, University Hospital of Salamanca, Spain <p>Fraunhofer presentation:</p> <ul style="list-style-type: none"> - Dr. Christophe Maufroy, Intuitive interaction with body-worn technology, Fraunhofer Institute for Manufacturing Engineering and Automation IPA (Stuttgart) <ul style="list-style-type: none"> ➤ Electrical Engineering Faculty (TUIASI) ➤ Mechanical Engineering Faculty (TUIASI) ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany ➤ Systems Engineering and Automation Department, Miguel Hernández University, Spain ➤ Biomechanics and Technical Aids Department, National Hospital for Paraplegics, Spain ➤ Group of Robotics and Society (GROUSAL), University of Salamanca, Spain ➤ Rehabilitation Department, University Hospital of Salamanca, Spain

Day 2: Wednesday, 27.01.2021

<p>10:00-12:00 (Germany, Spain)</p> <p>11:00-13:00 (Romania)</p>	<p>Session 5: ‘Development of specific biomarkers / antibodies’</p> <p><i>Host: David Pérez-González (University of Salamanca, Spain)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations:</p> <ul style="list-style-type: none"> - Professor Romeo CIOBANU, Electrical Engineering Faculty - Thomas SCHREINER, Ph. D. Student <p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Prof. José Luis LANCIEGO <i>or</i> Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain - Prof. Arantxa TABERNERO, Institute of Neuroscience of Castilla y León (INCYL), University of Salamanca, Spain <p>ZI-Mannheim presentation:</p> <ul style="list-style-type: none"> - Prof. Dr. Alexander Sartorius/ Dr. Wolfgang Weber-Fahr, Translational Imaging, ZI Mannheim <ul style="list-style-type: none"> ➤ Electrical Engineering Faculty (TUIASI) ➤ Central Institute of Mental Health (ZI-Mannheim), Germany ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain ➤ Institute of Neuroscience of Castilla y León (INCYL), University of Salamanca, Spain
<p>12:00-14:00 (Germany, Spain)</p> <p>13:00-15:00 (Romania)</p>	<p>Session 6: ‘Advanced trans-cranial magnetic stimulation, disposable electrodes for EEG and muscle biosensors’</p> <p><i>Host: David Pérez-González (University of Salamanca, Spain)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations:</p> <ul style="list-style-type: none"> - Professor Romeo CIOBANU, Electrical Engineering Faculty - Thomas SCHREINER, Ph. D. Student <p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Prof. Manuel S. MALMIERCA, Institute of Neuroscience of Castilla y León (INCYL), University of Salamanca, Spain - Dr. Antonio OLIVIERO (MD-PhD), Functional Exploration and Neuromodulation of the CNS Department, National Hospital for Paraplegics, Spain

	<p>- Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain</p> <ul style="list-style-type: none"> ➤ Electrical Engineering Faculty (TUIASI) ➤ Department of Clinical Neurophysiology, University Hospital of Salamanca, Spain ➤ Department of Surgery and Anesthesiology, University of Salamanca, Spain ➤ Institute of Neuroscience of Castilla y León (INCYL), University of Salamanca, Spain ➤ Functional Exploration and Neuromodulation of the CNS Department, National Hospital for Paraplegics, Spain ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
<p>12:00-14:00 (Germany, Spain)</p> <p>13:00-15:00 (Romania)</p>	<p>Session 7: ‘Design and mathematical modelling of innovative systems for minimally invasive interventions’</p> <p><i>Host: Mircea Tric (Fraunhofer Institute, Germany)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentation:</p> <p>- Professor Ioan DOROFTEI, Mechanical Engineering Faculty</p> <p>SPAIN presentations:</p> <p>- Prof. Belén CURTO DIEGO <i>or</i> Prof. Vidal MORENO RODILLA, Group of Robotics and Society (GROUSAL), University of Salamanca, Spain</p> <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Mechanical Engineering Faculty (TUIASI) ➤ Group of Robotics and Society (GROUSAL), University of Salamanca, Spain
<p>15:30-17:30 (Germany, Spain)</p> <p>16:30-18:30 (Romania)</p>	<p>Session 8: ‘Deep learning techniques for healthcare. Intelligent Data Analysis’</p> <p><i>Host: Mircea Tric (Fraunhofer Institute, Germany)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations:</p> <p>- Professor Iulian CIOCOIU, Electronics, Telecommunications & Information Technology Faculty</p> <p>- Professor Lavinia FERARIU, Automatic Control and Computer Engineering Faculty</p>

	<p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Dr. Javier PRIETO (PhD), Bioinformatics, Intelligent Systems and Educational Technology Group (BISITE), University of Salamanca, Spain - Prof. José Luis LANCIEGO or Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain <p>Fraunhofer presentations:</p> <ul style="list-style-type: none"> - Dr. Stefan Wesarg, Visual Healthcare Technologies, Fraunhofer Institute for Computer Graphics Research IGD (Darmstadt) - Christian Hofmann, Medical Communication and Biosignal Processing, Fraunhofer Institute for Integrated Circuits IIS (Erlangen) - Professor Holger Fröhlich, AI & Data Science, Fraunhofer Institute for Algorithms and Scientific Computing SCAI (Sankt Augustin) <p>ZI-Mannheim presentation:</p> <ul style="list-style-type: none"> - Dr. Emanuel Schwarz, Translational Bioinformatics in Psychiatry, ZI Mannheim <ul style="list-style-type: none"> ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Germany ➤ Fraunhofer Institute for Integrated Circuits (IIS), Germany ➤ Central Institute of Mental Health (ZI-Mannheim), Germany ➤ Fraunhofer Institute for Computer Graphics Research (IGD), Germany ➤ Bioinformatics, Intelligent Systems and Educational Technology Group (BISITE), University of Salamanca, Spain ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
<p>17:30-19:30 (Germany, Spain)</p> <p>18:30-20:30 (Romania)</p>	<p>Session 9: ‘Wearable sensors and electromyography’</p> <p><i>Host: Nicolae Lucanu (Project Coordinator; Gheorghe Asachi Technical University of Iasi, Romania)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI Presentations:</p> <ul style="list-style-type: none"> - Professor Nicolae BOTEZATU, Automatic Control and Computer Engineering Faculty - Professor Alexandru TRANDABAT, Electrical Engineering Faculty - Professor Romeo CIOBANU, Electrical Engineering Faculty - Professor Dan DOBREA, Electronics, Telecommunications & Information Technology Faculty

	<p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Dr. María Victoria ALEJOS (MD-PhD), Department of Clinical Neurophysiology, University Hospital of Salamanca, Spain - Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain <p>Fraunhofer presentations:</p> <ul style="list-style-type: none"> - Christian Hofmann, Medical Sensors and Analytics, Fraunhofer Institute for Integrated Circuits IIS (Erlangen) - Professor Holger Fröhlich, AI & Data Science, Fraunhofer Institute for Algorithms and Scientific Computing SCAI (Sankt Augustin) <p>ZI-Mannheim presentation:</p> <ul style="list-style-type: none"> - Dr. Emanuel Schwarz, Translational Bioinformatics in Psychiatry, ZI Mannheim <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Industrial Design and Business Management Faculty (TUIASI) ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Electrical Engineering Faculty (TUIASI) ➤ Mechanical Engineering Faculty (TUIASI) ➤ Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Germany ➤ Fraunhofer Institute for Integrated Circuits (IIS), Germany ➤ Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany ➤ Department of Clinical Neurophysiology, University Hospital of Salamanca, Spain ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
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Day 3: Thursday, 28.01.2021

<p>9:30-11:30 (Germany, Spain) 10:30-12:30 (Romania)</p>	<p>Session 10: ‘Brain Functional Network Extraction and Analysis’ <i>Host: Nicolae Lucanu (Project Coordinator; Gheorghe Asachi Technical University of Iași, Romania)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations: - Professor Florina UNGUREANU, Automatic Control and Computer Engineering Faculty - Professor Lavinia FERARIU, Automatic Control and Computer Engineering Faculty</p> <p>SPAIN presentations: - Dr. Javier PRIETO (PhD), Bioinformatics, Intelligent Systems and Educational Technology Group (BISITE), University of Salamanca, Spain - Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain</p> <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Central Institute of Mental Health (ZI-Mannheim), Germany ➤ Bioinformatics, Intelligent Systems and Educational Technology Group (BISITE), University of Salamanca, Spain ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
<p>9:30-11:30 (Germany, Spain) 10:30-12:30 (Romania)</p>	<p>Session 11: ‘Human-robot interaction and simulation’ <i>Host: Mircea Tric (Fraunhofer Institute, Germany) (Fraunhofer Institute, Germany)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations: - Professor Adrian BURLACU, Automatic Control and Computer Engineering Faculty</p> <p>SPAIN presentations: - Prof. Belén CURTO DIEGO or Prof. Vidal MORENO RODILLA, Group of Robotics and Society (GROUSAL), University of Salamanca, Spain - Dr. Agustín DÍAZ ÁLVAREZ (MD-PhD), Department of Surgery and Anesthesiology, University of Salamanca, Spain</p> <p>Fraunhofer presentation:</p>

	<p>- Dr. Christophe Maufroy, Intuitive interaction with body-worn technology, Fraunhofer Institute for Manufacturing Engineering and Automation IPA (Stuttgart)</p> <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Mechanical Engineering Faculty (TUIASI) ➤ Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany ➤ FhG-PAMB ➤ Group of Robotics and Society (GROUSAL), University of Salamanca, Spain ➤ Department of Surgery and Anesthesiology, University of Salamanca, Spain
<p>12:00-14:00 (Germany, Spain)</p> <p>13:00-15:00 (Romania)</p>	<p>Session 12: ‘E-instruments for improved communication’</p> <p><i>Host: David Pérez-González (University of Salamanca, Spain)</i></p> <p>Click here to enter the online room</p>
	<p>TUIASI presentations:</p> <ul style="list-style-type: none"> - Professor Radu BOZOMITU, Electronics, Telecommunications & Information Technology Faculty - Professor Robert LUPU, Automatic Control and Computer Engineering Faculty <p>SPAIN presentations:</p> <ul style="list-style-type: none"> - Prof. Belén CURTO DIEGO <i>or</i> Prof. Vidal MORENO RODILLA, Group of Robotics and Society (GROUSAL), University of Salamanca, Spain - MOST LIKELY REPRESENTED BY FORMER GROUP: Dr. Javier NIETO BLASCO, Rehabilitation Department, University Hospital of Salamanca, Spain - Dr. Miguel VALENCIA USTÁRROZ (PhD), Center for Applied Medical Research (CIMA), University of Navarra, Spain - CONFIRMATION PENDING, maybe sends other team member: Prof. José María AZORÍN, Systems Engineering and Automation Department, Miguel Hernández University, Spain <ul style="list-style-type: none"> ➤ Automatic Control and Computer Engineering Faculty (TUIASI) ➤ Electronics, Telecommunications & Information Technology Faculty (TUIASI) ➤ Systems Engineering and Automation Department, Miguel Hernández University, Spain ➤ Group of Robotics and Society (GROUSAL), University of Salamanca, Spain

	<ul style="list-style-type: none"> ➤ Rehabilitation Department, University Hospital of Salamanca, Spain ➤ Center for Applied Medical Research (CIMA), University of Navarra, Spain
<p>17:30-19:30 (Germany, Spain)</p> <p>18:30-20:30 (Romania)</p>	<p>Closing Session</p> <p><i>Host: Nicolae Lucanu (Project Coordinator; Gheorghe Asachi Technical University of Iași, Romania)</i></p> <p>Click here to enter the online room</p>
	<ul style="list-style-type: none"> ➤ <i>All participants are invited</i>