✓ Wednesday, 17 July 2019 Venue: Faculty of Sciences, Mohammed V University in Rabat		▼ Thursday, 18 July 2019 Venue: Hassan II Academy of Sciences and Technology		Abdelouahid Lyhyaoui, Ecole des Sciences Appliqués de Tanger, Morocco <i>SmarTa Project: Scientific Contributions of LTI/</i>	
08:00 - 09:00	Registration and Words of Welcome	09:00 - 09:45	Welcome Addresses & Opening Remarks Omar Fassi-Fehri, Permanent Secretary of the		MedSoftworks Discussion
09:00 - 10:30	Tutorials and Demos I Anders Bergman, Uppsala University, Sweden Atomistic Spin Dynamics		Hassan II Academy of Science and Technology Mosto Bousmina, Chancelor of Hassan II Academy of Science and Technology &	12:45 - 14:00	LUNCH BREAK
	Abeer Abu Raeed, American University of Ras Al Khaimah, United Arab Emirates Virtual Reality in Architecture		President of Euro-Mediterranean University of Fes (UEMF) Mohammed Rhachi, President of Mohammed V University	14:00 - 15:30	Session II: Soft Computing in Energy & Health Helder Araujo, Institut for Systems and Robotics, University of Coimbra, Portugal
10:30 - 10:45	ICOFFEE BREAK		Mourad El Belkacemi, Dean of Faculty of Sciences, Rabat		Localization and visual odometry for endoscopic capsules with multiple cameras
10:45 - 12:15	Tutorials and Demos II Lalla Btissam Drissi, Mohammed V University Rabat and Hassan II Academy of Sciences and Technology, Morocco & AGYA Alumna Application of DeepAIMD for Energy and		Lalla Btissam Drissi, Mohammed V University Rabat and Hassan II Academy of Sciences and Technology, Morocco & AGYA Alumna <i>Welcome and Introduction of AGYA</i>		Anders Bergman, Uppsala University, Uppsala, Sweden Realistic finite-temperature descriptions of magnetic materials Ismail Al Hinti, German Jordan University,
	Environment Asier Eiguren, International Physics Center in San Sebastian, Spain Visualization of Fermi Surfaces Using Wannier Functions with Python Mayavi/Xcrysden Packages	09:45 - 10:15	Introductory Lecture Aawatif Hayar, President of University Hassan II-ENSEM, Casablanca Chair of Casablanca IEEE Core Smart City Project Coordinator Solar Decathlon Africa Project E-Co Dar		Amman, Jordan Prospects of smart integration of photovoltaic systems Asier Eiguren, International Physics Center (DIPC), San Sebastian, Spain Efficient treatment of Fermi Surface dependent physical propertie
12:15 - 14:00	ILUNCH BREAK		President of GreenTIC Research Centre		Discussion
14:00 - 15:30	Tutorials and Demos III Faycal Djeffal, University Mostefa, Algeria		E-Co Dar: A Moroccan Maslow Concept for Affordable Social Sustainable Smart Housing	15:30 - 15:45	COFFEE BREAK
	& AGYA Alumnus Photovoltaic and Photodetector Devices: New Design Approaches Julen Ibanez, Materials Physics Center in San Sebastián, Spain New Features in Wannier90	10:15 - 10:45 10:45 - 12:45	Session I: Big Data and Smart Cities Antonio Puliafito, University of Messina, Italy A Self-Configurable Control System for Software- Defined Smart Cities	15:45 - 17:45	Session III: Data Mining & Machine Learning in Environment Youcef Djenouri, Department of Computer and Information Science, NTNU, Trondheim, Norway Data Mining Techniques for Smart City Applications: Case Study on Intelligent
15:30 - 15:45	ICOFFEE BREAK		Ahmad Sakhrieh, American University of Ras Al Khaimah, United Arab Emirates & AGYA Member		Transportation Systems Dafir Mann, Architect and Expert in Urban
15:45 - 17:15	Tutorials and Demos IV Rachid Ahl Laamara, CRMEF-Fes and Meknes Center of Physics & Mathematics in Rabat, Morocco Mathematical Computation Program for Big Data Hamid Rassam, University of Perpignan, France Applications of Nanomagnetization's Switching in Medicine & Environment		Energy Efficiency in Buildings Assia Belbachir, Polytechnic Institut for Advanced Sciences, Sorbonne University, France Smart Mobility Marc Ringel, HFWU – Nuertingen-Geislingen University, Germany & AGYA Member Digitisation and Big Data in the Energy Sector in Germany		Design, United Arab Emirates Sustainable Urbanism/ Urban Forms in The Gulf Region Julen Ibanez, Materials Physics Center, CSICUPV/EHU, Spain Nonlinear Photovoltaics in Non- Centrosymmetric Materials from First Principles

Maisa Farahat, University Tunis Al Manar,

Tunisia

Support Vector Machine for PV System Efficiency Improvement

Younes Raoui, Faculty of Sciences, Mohammed V University in Rabat, Morocco Spatial Navigation of Artificial Agents Using Machine Learning Discussion

Friday, 19 July 2019

Venue: Scientific Excursion to the City of Tanger for Speakers

07:00 – 10:00 | BUS TRANSFER FROM HOTEL TO CITY OF TANGER

10:00 – 13:00 Morning Excursions

Excursion I: Tanger Automotive City

Visit to the wind farm "El Koudya Al Bida" as the first wind farm for wind turbine blades in the Middle East & Africa.

Excursion II: Tangier-Med Port

Visit to the port known as an integrated competitiveness hub and as an industrial platform aggregating economic zones.

13:15 – 14:30 LUNCH BREAK

14:30 – 18:30 Afternoon Excursions

Excursion III: Tangier Tech City

Visit to the furture Moroccan smart city. **Excursion IV:** Faculty des Sciences Techniques
Visit to the laboratories of FST in Tangier. **Excursion V:** Ecole Nationale des Sciences

Appliquées

Visit to the laboratories of ENSA in Tangier

Excursion VI: City Rally Tangier Intercultural Team-Building Activity

19:00 DINNER AND RETURN TO THE HOTEL

Workshop Organizers:

Lalla Btissam Drissi

Mohammed V University & Agya Alumna, Morocco

Ahmed Sakhrieh

American University Ras Al Khaimah & AGYA Member, United Arab Emirates

Marc Ringel

HFWU – Nuertingen-Geislingen University & AGYA Member, Germany

Conference Hotel

Hotel Rabat

21, Chellah Avenue, Hassan, Rabat, Morocco

Conference Venues

Hassan II Academy for Sciences & Technology

Km 4 Mohammed VI Avenue, Rabat, Morocco

Faculty of Sciences, Mohammed V University in Rabat,

Avenue Ibn Battouta, Agdal, Rabat, Morocco

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Soft Computing and Data Mining for Energy, Environment & Health

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Rabat & Tanger, Morocco

