

EVF'2021

CERGY • FRANCE

8th International conference on "Energy and City of the Future"

26 NOVEMBRE 2021 • CERGY • AUDITORIUM DE L'IPSL



In memory of A-M Darcherif



EVF'2021 Conference Program

8h30 – 9h30	Welcome coffee
Auditorium	Tribute to Prof. DARCHERIF
9h30 – 11h00	Testimonies
11h00 – 11h15	Opening Ceremony



Plenary Conference

11h15 – 11h50

Higher Education and Employment Worldwide: beyond ideology, the challenge of data for the academic community
Dr Pierre TAPIE
President, PAXTER, PARIS

Auditorium

Session 1 : City and buildings of the future

HR18

Session 2 : Factories of the Future

Chairman

Prof. Mohammed EL GANAOU
Université de Lorraine, France

Chairman

Dr. Abdelhak KACI
L2MGC, CY Cergy Paris Université

11h50 – 12h10

Thermal of the Building
Konstantin DIMITROV (1), Ikram EL ABBASSI (2), A-Moumen DARCHERIF (2)
(1) Université Technique – Sofia, UTS, Bulgaria
(2) ECAM-EPMI, Cergy Pontoise, France

11h50 – 12h10

Simulation of Li-Ion Battery Using Matlab-Simulink for Charging and Discharging
Suraj BHAGAT, Archana CHANDAK, Virendra TALELE, Kshitiji KHADE, Aditya BUDUKH, Aditya BHOSALE, MATHEW V K
Department of Mechanical Engineering MIT-ADT University-MIT School of Engineering, Pune, Pincode-412201, India

12h10 – 12h30

Investigation of the length and fiber content influence of Typha Australis on biosourced composites
Labouda BA (1,2,3), Ikram EL ABBASSI (3,4), Tien Tung NGO (1,4), Prosper Pliya (5), A-Moumen DARCHERIF (2,3), Mamoudou NDONGO (4), Cheikh Sidi Ethmane KANE (4)
(1) CY Cergy Paris Université, (2) Laboratoire Quartz,
(3) ECAM-EPMI ; (4) L2MGC ;
(4) Université de Nouakchott Al Aasriya, Nouakchott, Mauritanie

12h10 – 12h30

Algorithm for Lane Detection Using Python
Rohan KISHOR, Archana CHANDAK, Virendra TALELE, Rajat JOSHI, Pranav DIXIT, Sumit Singh RATHORE, MATHEW V K
Department of Mechanical Engineering MIT-ADT University-MIT School of Engineering, Pune, Pincode-412201, India

12h30 – 13h30

Lunch

Auditorium	Plenary Conference
13h30 – 14h05	<p>On waste recovery in concrete: a state of art and studies in progress</p> <p>Prof. Elhem Ghorbel</p> <p>CY Cergy Paris University, L2MGC</p>

Auditorium	Session 3 : Factories of the Future	HR18	Session 4 : Energy and management
Chairman	<p>Prof. Jean-Pierre BARBOT</p> <p>Quartz Laboratory, ENSEA, LS2N UMR CNRS 6004</p>	Chairman	<p>Dr. Karim LABADI (HDR)</p> <p>Quartz, ECAM-EPMI</p>
14h10 – 14h30	<p>The Smart Factory development, an internal social network inside Industry.</p> <p>Rémi PORCEDDA</p> <p>ECAM Strasbourg-Europe, France</p>	14h10 – 14h30	<p>Energy Management of a Fuzzy Control System in a Microgrid</p> <p>Meryem MELIANI (1,2), Abdellah EL BARKANY (1), Ikram EL ABBASSI (2), Rafik ABSI (2), Morad MAHMOUDI (1,2)</p> <p>(1) Laboratoire de génie mécanique, Faculté des sciences et techniques, Université Sidi Mohammed Ben Abdellah, Fès, Maroc</p> <p>(2) ECAM-EPMI, Cergy Pontoise, France</p>
14h30 – 14h50	<p>Energy optimization and predictive maintenance of asphalt plants</p> <p>Jean Welako, Grâce N'cho, Arsène Marta, Kamel Boudjema</p> <p>Kantena Technologies, France</p>	14h30 – 14h50	<p>A Simple Method based on Model Predictive Control for the Reduction of Common Mode Voltage in a Three-Phase Voltage Source</p> <p>Fatima ABDELAZIZ (1), Zineddine AZZOUZ (1), Abdelhafid OMARI (2)</p> <p>Automatic department, University of Science and Technology of Oran</p> <p>Mohamed BOUDIAF, USTO-MB, Oran, Algeria</p> <p>(1) LDEE, (2) AVCIS</p>
14h50 – 15h10	<p>Contributions of Information and communication technologies to industrialization of additive manufacturing</p> <p>Abdelhak KACI (1,2), Samir HAMACI (3,4), Ikram EL ABBASSI (2,3), Rachid CHELOUAH (5)</p> <p>(1) CY Cergy Paris Université, (2) L2MGC, (3) ECAM-EPMI ; (4) Laboratoire Quartz, (5) CYTech (EISTI)</p>	14h50 – 15h10	<p>Local materials, between regional diversity and energy performance to build efficient buildings in a transborder context (morocco-spain)</p> <p>Salma KOUZZI (1), Mohammed EL GANAOUI (2), Abdelhamid KHEIRI (2)</p> <p>(1) Université Abdelmalk Essadi Faculté des sciences, Tétouan, Maroc ; (2) Université de Lorraine, France</p>

Auditorium	Session 5 : Energy and management	HR18	Session 6 : City and buildings of the future
Chairman	Prof. Mohamed DJEMAI Université Polytechnique Hauts-de-France	Chairman	Dr. Milka UZUNOVA ECAM-EPMI
15h10 – 15h30	Commande des convertisseurs de puissance appliqués aux réseaux intelligents (SMART-GRID) A-Moumen DARCHERIF(1,3), Bilal AMGHAR(1,2), Jean-Pierre BARBOT(1,4,5) (1)QUARTZ Laboratory ; (2) ESTP Paris ; (3) ECAM EPMI ; (4) ENSEA ; (5) LS2N, UMR CNRS 6004, Ecole Centrale Nantes, France	15h10 – 15h30	City and Buildings of the Future: An AI Perspective, Anand J KULKARNI Professor & Associate Director, Institute of Artificial Intelligence, MIT World Peace University, Pune, India
15h30 – 15h50	Optimized Fractional Order Based Droop Control with Improving the Flexibility of a Microgrid Fatma-Zohra HADJAJI (1), Djamel BOUKHETALA (1), Jean-Pierre BARBOT (2,3) (1) Ecole Nationale Polytechnique, El Harrach, Algiers, Algeria. (2)Quartz Laboratory, ENSEA, Cergy-Pontoise, France. (3)LS2N UMR CNRS 6004, Ecole Centrale Nantes, France	15h30 – 15h50	Development of Blue-green infrastructure framework to restore nallahs (dirty drains) to nadis (streams), in India Vandana PUSALKAR (1), Vimala SWAMY (2), Anand SHIVAPUR (3) (1) Research Scholar, Visvesvaraya Technological University, Belagavi, Karnataka, India (2) Director, Professor, Reva University, Bangalore, Karnataka, India. (3) P.G. Co-Ordinator, Visvesvaraya Technological University, Belagavi, Karnataka, India

15h50 – 16h05	Pause

Auditorium	Plenary Conference
16h10 – 16h45	Nanophotonics for the city: photocatalytic water remediation and metamaterial mediated radiation management Prof. Jean-Michel NUNZI Queen’s University, Canada

Auditorium	Session 7 : Transport and Mobility & Factories of the Future
Chairman	Prof. Konstantin DIMITROV Université Technique – Sofia, UTS, Bulgarie
16h50 – 17h10	The role of Computer Vision Artificial Intelligence in Autonomous Cars for road maintenance Rabih AMHAZ ECAM Strasbourg-Europe, France
17h10 – 17h30	State-of-the-art of motor control and related technology for electric vehicles Minh C. TA Département de Génie Electrique et de Génie Informatique, Faculté de Génie, Université de Sherbrooke, Sherbrooke, Canada
17h30 – 17h50	Hybrid Threats against Industry 4.0: Adversarial Training of Resilience Olena KAIKOVA(1), Vagan TERZIYAN(1), Timo TIIHONEN(1), Mariia GOLOVIANKO(2), Svitlana GRYSHKO(2), Liudmyla TITOVA(2) (1) Faculty of Information Technology, JYU, University of Jyväskylä, Jyväskylä, Finland (2) NURE, Kharkiv National University of Radio Electronics, Ukraine

HR18	Session 8 : Factories of the Future & Materials
Chairman	Dr. Dalla VIA MARCO Quartz, ECAM-EPMI
16h50 – 17h10	An Experimental Comparative Study between Feedforward Control and Iterative Learning Control for Trajectory Tracking of a Delta Robot Chems Eddine Boudjedir (1), Djamel Boukhetala (1), Mohamed Bouri (2) 1 Process Control Laboratory, Ecole Nationale Polytechnique (ENP) , El-Harrach, , Algiers, Algeria 2 Biorobotics Laboratory, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
17h10 – 17h30	Piezocellular Materials for energy harvesting and self-powered vibration control Abdelwahed HAJJAJI Université Chouaïb Doukkali, Ecole Nationale des Sciences Appliquées - El Jadida, ELHAOUZIA, El Jadida Plateau Maroc
17h30 – 17h50	Carbide austempered ductile iron: current status and future prospects Penghui YANG (1), Hanguang FU (2), Rafik ABSI (3), Rachid BENNACER (4), A.-Moumen DARCHERIF (3) (1)Lanzhou University of Technology, Lanzhou, China (2)Key Laboratory of Advanced Functional Materials, Ministry of Education, School of Materials Science and Engineering, Beijing University of Technology, Beijing, People’s Republic of China (3)ECAM-EPMI, Cergy-Pontoise, France (4)ENS Paris Saclay, France

Auditorium	
17h50 – 18h30	Closing Ceremony

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Adresse :

13 Boulevard de l'Hautil

95092 Cergy-Pontoise

Sessions :

- Auditorium : Bâtiment/Building M
- Salle HR18 : Bâtiment/Building H2



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