



Oklahoma International Publishing, USA
2021 Inaugural OkIP Academia & Industry Convention

2021 OkIP International Conference on Advances in Power and Energy (CAPE)
2021 OkIP International Conference on Green Research & Technology (CGRT)
2021 OkIP International Conference on Enterprise and Software Process (CESP)
2021 OkIP International Conference on Automated and Intelligent Systems (CAIS)
2021 OkIP International Conference on Data Technology and Engineering (CDTE)
2021 OkIP International Conference on Cloud Computing and Technologies (CCCT)
2021 OkIP International Conference on Electronic Commerce and Applications (CECA)
2021 OkIP International Conference on eLearning and Technology in Education (CETE)
2021 OkIP International Conference on Advances in High-Performance Computing (AHPC)
2021 OkIP International Conference on Advances in Health Information Technology (AHIT)
2021 OkIP International Conference on Software Engineering Research & Development (SERD)
2021 OkIP International Conference on Advances in Information Security and Assurance (AISA)

Online & Moore-Norman Tech Conference Center
13301 S Pennsylvania Ave, Oklahoma City, OK 73170
November 15-18, 2021

Preliminary Program Draft

November 17, 2021
Central Time, Oklahoma, USA

OkIP
1911 Linwood Blvd Ste 100
Oklahoma City Oklahoma 73106, USA
+1 405-510-6431
info@okipublishing.com
www.okipublishing.com



Oklahoma International Publishing, USA 2021 Inaugural OkIP Academia & Industry Convention

Message from The OkIP Secretariat

The program of these conferences is very concise due to the short period to organize it (July-October) and the current COVID situation.

These conferences have significant topical overlap. In consultation with the International Program Committee, the Organizing Committee decided to merge the presentations of all the events into one comprehensive program to facilitate increased opportunities for cross-fertilization across these research topics.

Nearly all presenters have selected to participate Online, and preferably in the middle of the week. We decided Wednesday, November 17, 2021.

We thank all those Program Committee Members, Authors, Invited Speakers, Reviewers, Staff, and Participants who have contributed to making this event possible. The program is presented on a universal 24-hour clock format [00:00-23:00]. We also thank Moore-Norman Technology Center, which will be hosting the onsite attendees in room P209 south penn.

Organizing Committee

Pierre Tiako, OkIP, USA, General & Program Chair
Tom Jobe, BioInSpire LLC, USA, Industry Chair
Dan Morehead, OGE Energy Corp (Ret.), USA, Industry Co-Chair
Khaled Sellami, University of Bejaia, Algeria, Publication Chair
Hyacinthe Aboudja, Oklahoma City U, USA, Workshops and Symposium Chair
Lynda Sellami, University of Bejaia, Algeria, Publicity Chair
Paoli Wognakou, Chesapeake Energy, USA, Presentation Chair
Bertrand Cheng, OkIP, USA, Presentation Co-Chair
Erica Toles, OkIP, USA, Manager
Kris Zeuti, OkIP, USA, Secretariat
Joe Ely, Moore-Norman Technology Center, USA, Local Arrangement Chair
Tasha Stacy, Moore-Norman Technology Center, USA, Local Arrangement Co-Chair



Oklahoma International Publishing, USA 2021 Inaugural OkIP Academia & Industry Convention

International Program Committee

A Qusef, Princess Sumaya U for Tech., Jordan
A M. Salem, Ain Shams U of Cairo, Egypt
A Alwabel, P. S Bin Abdulaziz U., KSA
Abena Primo, Huston-Tillotson U, USA
Akhil Kumar, Penn State U, USA
Alfredo Cuzzocrea, U of Calabria, Italy
Amina Omrane, U of Sfax-Tunisia, Tunisia
A Natsheh, Higher Colleges of Tech., Dubai
Andrew Kusiak, University of Iowa, USA
Arnab K. Paul, Oak Ridge Nat Laboratory, USA
Attila Kertesz, University of Szeged, Hungary
Benjamin Yen, U. of Hong Kong, Hong Kong,
Bora Karayaka, Western Carolina U, USA
D. Novosel, Quanta Tech. and Ener Src, USA,
Dan Morehead, OGE Energy Corp (Ret.), USA
Dana Petcu, West U of Timisoara, Romania
David Bueno Vallejo, U of Malaga, Spain
Denise Whitelock, The Open University, UK
Detlef Schulz, Helmut-Schmidt U, Germany
Dina Tbaishat, University of Jordan, Jordan
Dinesh Kumar, Danfoss Drives A/S, Denmark
Farhan Siddiqui, Dickinson University, USA
G. Lkhagvasuren, Natl U Mongolia, Mongolia
H Misra, Inst of Rural Mngt Anand, India
Hongzhi Wang, Harbin Inst of Tech, China
Husanbir S. Pannu, Thapar University, India
Hyacinthe Aboudja, Oklahoma City U, USA
I Konstantinou, Nat Tech U. of Athens, Greece
Irene Tiako, U of Yaounde-Nsoa, Cameroon
J. Cecil, Oklahoma State University, USA
James H. Hill, IUPUI University, USA
Jay Lofstead, Sandia Nat Laboratories, USA
Jose Rueda Torres, Delft U of Tech, Netherlands
Karen Renaud, University of Strathclyde, UK
Katja Gilly, Miguel Hernandez U, Spain
Kendra Cooper, British Columbia, Canada
Kengo Hayashi, DENSO Corporation, Japan
Khaled Sellami, U of Bejaia, Algeria
Khalid Alemerien, Tafila Tech U., Jordan
Kishore Mude, Solace Power Inc., Canada
Le Gruenwald, U of Oklahoma, USA

Lelio Campanile, U of Campania, Italy
L McLauchlan, Texas A&M U.-Kingsville, USA
Lynda Sellami, University of Bejaia, Algeria
Manos Tentzeris, Georgia Inst of Tech, USA
Mauro Andreolini, U of Modena, Italy
Mauro Cuervo, P&T U of Colombia, Colombia
M Tsikerdekis, Western Washington U, USA
Michele Mastroianni, U of Campania, Italy
Mohamed Firdhous, U of Moratuwa, Sri Lanka
Mouloud Denai, U of Hertfordshire, UK
Mounir Khiat, ENP Oran, Algeria
M. Maravanyika, Namibia U. of S&T, Namibia
Namrata Dhanda, Amity University, India
Nasro Min-Allah, Imam A Bin Faisal U, KSA
Nesreen Alsbou, U of Central Oklahoma, USA
Nora Sharkasi, Tokyo International U, Japan
Oladayo Bello, New Mexico State U, USA
Om Malik, University of Calgary, Canada
P. Cantiello, Natl Inst of Geo & Volc, Italy
Pierre Tiako, OkIP Oklahoma City, USA
Rafael Capilla, Rey Juan Carlos U, Spain
Ragab El-Sehiemy, Kafrelsheikh U, Egypt
Rajkumar Buyya, U of Melbourne, Australia
Rashid Mehmood, King Abdulaziz U., KSA
Reza Tourani, Saint Louis University, USA
Ridwan R. Noel, Texas Lutheran U, USA
Roy McCann, University of Arkansas, USA
R Mehrubeoglu, Texas A&M U. C Christi, USA
Saeed Peyghami, Aalborg University, Denmark
S Hubackova, U. of Hradec Kralove, Czech Rep
Sergio Lujan-Mora, U of Alicante, Spain
Sergiu Dascalu, U of Nevada-Reno, USA
S Abdelwahed, Virginia Common U., USA
Shoeb Khan, East Tennessee State U, USA
Shu-Ming Wang, Chinese Culture U, Taiwan
Sraboni Dutta, Birla Institute of Tech, India
T Palaoag, U of the Cordilleras, Philippines
Tom Jobe, BioInSpire LLC, USA
Valentina Franzoni, University of Perugia, Italy
Vincent Emeakaroha, U College Cork, Ireland
Yousef Farhaoui, Moulay Ismail U, Morocco



Oklahoma International Publishing, USA 2021 Inaugural OkIP Academia & Industry Convention

Conference Start Day and Time Per Time Zones

The program is presented on a universal 24-hour clock format [00:00-23:00] starting at the below time, depending on your geographical location.

City/Region/Country	Time Zone	Day	Conference Start Time
Oklahoma City, OK, USA	CST (UTC -6)	Wed, Nov 17, 2021	09:00
London, United Kingdom	GMT (UTC +0)	Wed, Nov 17, 2021	15:00
Tokyo, Japan	JST (UTC +9)	Thu, Nov 18, 2021	00:00
New Delhi, India	IST (UTC +5:30)	Wed, Nov 17, 2021	21:30
Douala, Cameroon	WAT (UTC +1)	Wed, Nov 17, 2021	16:00
Montréal, Canada	EST (UTC -5)	Wed, Nov 17, 2021	10:00
Clemson, SC, USA	EST (UTC -5)	Wed, Nov 17, 2021	10:00
Eupen, Belgium	CET (UTC +1)	Wed, Nov 17, 2021	16:00
San Diego, CA, USA	PST (UTC -8)	Wed, Nov 17, 2021	07:00
Beijing, China	CST (UTC +8)	Wed, Nov 17, 2021	23:00
Awasa, Ethiopia	EAT (UTC +3)	Wed, Nov 17, 2021	18:00
Rio de Janeiro, Brazil	BRT (UTC -3)	Wed, Nov 17, 2021	12:00
Islamabad, Pakistan	PKT (UTC +5)	Wed, Nov 17, 2021	20:00
Baghdad, Iraq	AST (UTC +3)	Wed, Nov 17, 2021	18:00
Bucharest, Romania	EET (UTC +2)	Wed, Nov 17, 2021	17:00
Moscow, Russia	MSK (UTC +3)	Wed, Nov 17, 2021	18:00



Oklahoma International Publishing, USA

2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

08:30
-
08:55

Individual Zoom Testing and Configuration

08:55
-
09:00

Welcome Message

09:00
-
10:40

Automated Systems, Data, e-Learning, Security

Session Co-Chairs

- Pierre Bourque, University of Quebec, Canada
- Hyacinthe Aboudja, Oklahoma City University, USA

09:00
-
10:00

Academia Keynote/Invited Talk

Machine Learning for Critical Systems Security

Nancy R. Mead
Software Engineering Institute
Carnegie Mellon University, USA

10:00
-
10:20

Detecting Unsatisfiable Conjunctive Property Path Queries under Shape Expression Schema

- Yuuki Maedaa, Faculty of Humanities and Social Sciences, U. of Tsukuba, Tsukuba, Japan
- Nobutaka Suzuki, Faculty of Humanities and Social Sciences, U. of Tsukuba, Tsukuba, Japan

10:20
-
10:40

Using microgrids to improve the grid resilience in the aftermath of extreme events

- Radian Belu, Department of Electrical Engineering, Southern University, Louisiana, USA
- Zhengmao Ye, Department of Electrical Engineering, Southern University, Louisiana, USA



Oklahoma International Publishing, USA

2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

Power and Energy

- | | |
|-----------------------------------|--|
| 10:40
-
12:00 | Session Co-Chairs <ul style="list-style-type: none">• Nesreen Alsbou, University of Central Oklahoma, USA• Dan Morehead, OGE Energy Corp (Ret.), USA |
|-----------------------------------|--|

Academia Keynote/Invited Talk

- | | |
|-----------------------------------|--|
| 10:40
-
11:40 | Sustainable Energy Harvesting and Wireless Power Transfer Systems
Manos Tentzeris
School of Electrical and Computer Engineering
Georgia Institute of Technology, USA |
|-----------------------------------|--|

Stand-alone Electric Vehicle Charging Station Using FPGA

- | | |
|-----------------------------------|--|
| 11:40
-
12:00 | <ul style="list-style-type: none">• Ammar Natsheh, Department of Electrical Engineering, HCT, Dubai, UAE• Eman AlShammar, Department of Electrical Engineering, HCT, Dubai, UAE• Maryam Alkhaja, Department of Electrical Engineering, HCT, Dubai, UAE• Noora AlBlooshi, Department of Electrical Engineering, HCT, Dubai, UAE• Nguyen Hai, Department of Electrical Engineering, HCT, Dubai, UAE• Salama Almheiri, Department of Electrical Engineering, HCT, Dubai, UAE• Salma AlAsaad, Department of Electrical Engineering, HCT, Dubai, UAE• Shamma Ismail, Department of Electrical Engineering, HCT, Dubai, UAE |
|-----------------------------------|--|



Oklahoma International Publishing, USA

2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

12:00 - 14:00	Heath IT, Business, Security, Data, and Process Session Co-Chairs <ul style="list-style-type: none">• Tom Jobe, BioInSpire LLC, Oklahoma, USA• Matthew Watson, Guernsey, USA
12:00 - 13:00	<u>Academia Invited Talk</u> Blockchain Technology and its implications in Business Applications and Healthcare IT Akhil Kumar Smeal College of Business Penn State University, USA
13:00 - 13:20	Detecting and Preventing Approach for Electronic Medical Records in E-Health <ul style="list-style-type: none">• Lynda Sellami, Computer Science Department, University of Bejaia, Algeria• Djilali Idoughi, LMA Laboratory, Faculty of Exact Sciences, University of Bejaia, Algeria• Khaled Sellami, LMA Laboratory, Faculty of Exact Sciences, University of Bejaia, Algeria• Piere F Tiako, Center for IT Research & Development, Tiako University, Oklahoma, USA
13:20 - 13:40	Practical Understanding and Taxation of the Digital Economy in Cameroon <ul style="list-style-type: none">• Irene Tiako, Faculty of Economics & Mgmt Sciences, University of Yaounde II, Cameroon• Piere F Tiako, Center for IT Research & Development, Tiako University, Oklahoma, USA• Dawandala, Faculty of Economics & Mgmt Sciences, University of Yaounde II, Cameroon
13:40 - 14:00	The Role of Deuterium-Depleted-Water as a Health Supplement <ul style="list-style-type: none">• Eric Reese, BioISpire LLC, California, USA• Tom Jobe, BioInSpire LLC, Oklahoma, USA



Oklahoma International Publishing, USA

2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

14:00 - 15:20	Software Engineering, Education, and Computing Session Co-Chair(s) <ul style="list-style-type: none">• Sergiu Dascalu, University of Nevada-Reno, USA• Hyacinthe Aboudja, Oklahoma City University, USA
14:00 - 14:40	<u>Academia Keynote/Invited Talk</u> The Software Engineering Body of Knowledge —More Than 20 Years Down the Road Pierre Bourque Department of Software and IT Engineering University of Quebec, Canada
14:40 - 15:00	Python-based Adaptive Parallel Development and Implementation of Power System Dynamic Simulation <ul style="list-style-type: none">• Cong Wang, School of Computing, Clemson University, North Charleston, SC, USA• Liwei Wang, School of Computing, Clemson University, North Charleston, SC, USA• Shuangshuang Jin, School of Computing, Clemson University, North Charleston, SC, USA
15:00 - 15:20	Initial GPU Optimization of Template Modeling Score <ul style="list-style-type: none">• Hannah Johnson, Department of Computer Science, Lane College, Jackson, TN, USA• Armon White, Department of Computer Science, Lane College, Jackson, TN, USA• Yogesh Kale, Department of Comp Science and Eng, North Carolina A&T State University, USA• Elijah MacCarthy, Department of Mathematics, Lane College, Jackson, TN, USA



Oklahoma International Publishing, USA

2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

15:20 - 16:40	Sustainability, Green Technology, and Power Session Co-Chairs <ul style="list-style-type: none">• Kishore Mude, Solace Power Inc., Canada• Ammar Natsheh, HCT, Dubai, UAE
-----------------------------------	--

15:20 - 16:00	<u>Industry Keynote/Invited Talk</u> The Role of Biosensors in a Green Economy Tom Jobe BioInSpire LLC, Oklahoma, USA
-----------------------------------	--

16:00 - 16:20	Automatic Distribution of Cosmetics Products for Reducing Plastic Waste <ul style="list-style-type: none">• Eliane Kouede, Faculty of Sciences, University of Yaounde I, Yaounde, Cameroon• Alphonse T Kanga, Polytechnic School, University of Yaounde I, Yaounde, Cameroon• Claire Tegam Kouokam, Faculty of Sciences, University of Douala, Cameroon• Emile Tawamba, IUT, University of Douala, Cameroon
-----------------------------------	---

16:20 - 16:40	Complementarity and Variability of Wind and Solar Energy in Complex Terrain <ul style="list-style-type: none">• Radian Belu, Department of Electrical Eng, Southern University, Louisiana, USA• Darko Koracin, Division of Atmospheric Sciences, Desert Research Institute, Nevada, USA• Zhengmao Ye, Department of Electrical Engineering, Southern University, Louisiana, USA
-----------------------------------	--



Oklahoma International Publishing, USA 2021 Inaugural OkIP Academia & Industry Convention

Wednesday, November 17, 2021

Non-Presenter 1-Minute 1-Slide Pitch

Affiliation, Research Interests/Project, Lab Infrastructure, Contribution, Solicitation, Recruitment.

Session Co-Chairs (TBD, TBD)

Tentative (To be Confirmed)

1. Oklahoma City University, USA - Hyacinthe Aboudja
2. Clemson University, USA - Shuangshuang Jin
3. University of Tsukuba, Japan - Nobutaka Suzuki
4. Solace Power Inc., Canada - Kishore Mude
- 5.
6. Guernsey, USA – Matthew Watson
7. University of Nevada-Reno, USA - Sergiu Dascalu
- 8.
- 9.
- 10.
- 11.

16:40

-

17:00

17:00

-

17:05

Closing Remarks



Oklahoma International Publishing, USA 2021 Inaugural OkIP Academia & Industry Convention

Accepted abstracts or papers with a pending presentation mode or that will not be presented.

Enhancing value from business model innovation of social commerce: An empirical study of Pinduoduo in China

- Jing Lin, University of Paris Dauphine, Paris, France
- Xin Song, Rennes School of Business, Rennes, France

An Interdisciplinary Academic Project Applied to the COVID-19 Pandemic

- Marcelo Conceicao, Brazilian Aeronautics Institute of Technology, Brazil

Exploring the Linkage between Depression, its Causes and Effects on Students of Higher Educational Institutions

- Ahmad Muhammad Bilal, Hailey College of Commerce, University of the Punjab, Pakistan
- Hafiz Fawad Ali, Department of Management Sciences, University of Okara, Punjab, Pakistan
- Rizwan Qaisar Danish, Institute of Business Administration, University of the Punjab, Pakistan

Analysis of reducing memory load techniques on a full waveform inversion algorithm

- G von Conta, Department of CE and Auto, Federal University of Rio Grande do Norte, Brazil
- Italo A De Assis, Department of Eng and Tech, Federal Rural U of the Semi-arid Region, Brazil
- Samuel X De Souza, Department of CE and Auto, Federal U of Rio Grande do Norte, Brazil

Methodology for the Application of the IEC 61850-9-s Standard: applying SDN as network reconfiguration

- Romulo F. Corna, SEL Eng Services, Schweitzer Engineering Laboratories, Inc., WA, USA
- Voldi Zambenedetti, Department of EE, Pontifical Catholic University of Parana, Parana, Brazil.
- Edgard Jamhour, Polytechnic School, Pontifical Catholic University of Parana, Brazil

An Information Management System for the COVID-19 Pandemic Using Blockchain

- Marcelo Conceicao, Brazilian Aeronautics Institute of Technology, Brazil

Blockchain Interoperability Method for the Cross-organizational Transactions: A Meta-Meta-Model

- Ebtehal Nassar, Faculty of Computers and Artificial Intelligence, Cairo University at Giza, Egypt
- Iman Helal, Faculty of Computers and Artificial Intelligence, Cairo University at Giza, Egypt
- Sherif Mazen, Faculty of Computers and Artificial Intelligence, Cairo University at Giza, Egypt

Solar and Wind Forecasting Methods for their Integration

- Marium Chaudhry, Department of Electronic Eng, Fatima Jinnah Women University, Pakistan
- Azhar Ul Haq, College of Electrical & Mechanical Engineering, NUST, Islamabad, Pakistan
- Muhamaad Muddasir, College of Electrical & Mechanical Eng, NUST, Islamabad, Pakistan