

Call for Papers for July 2019: 2019 ICDSA International Conference on Computer, Data Science and Applications



The International Conference on Computer, Data Science and Applications is a blind review and an annually organized conference in the areas of Computer science, e-business, information technology, information systems, software engineering, computer engineering, electrical engineering, Telecommunications, business information systems, computational modeling, expert systems, E-learning, E-Business, E-Learning and Instructional Technologies, Signal Processing and Networks ,E-Agriculture, New Communication, Computational Mathematical Modelling, Financial Technologies, Software Systems and Architecture Health Informatics, Computational Biomedical Engineering, Computational Healthcare and Medicine, Computing Security Data Analytics for IoT Cognitive IoT Identity management in IoT Security and Privacy of IoT Social and Human Aspects in IoT Cloud Computing and IoT Body sensor networks Intelligent Transportation Systems Smart Grids Smart Homes and smart Cities Smart Agriculture Industrial IoT Applications Consumer IoT Applications, Artificial Intelligence, machine learning, deep learning, data applications etc. Best presentations at the conference will be selected and awarded.

Proceedings of full papers of the 2019 ICDSA Conference will be submitted to IEEE Xplore and other places such as Scopus, titles of papers will be made available in Web of Science linked to ResearcherID and Clarivate Analytics' Publons etc.

There will be presentations, workshops, seminars, etc. It is an opportunity for academics, industry professionals, government civil and security sector employees, practitioners and consultants from around the world who are involved in the study, work, management, development and implementation of systems related to the computing fields and its applications to share, network and exchange knowledge. Including the following topics but not limited to

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|---------------------------------|--|---|
| – Data Governance | – Data privacy | – Data analysis and Data mining |
| – Data asset | – Data security | – Data warehouse and Data mart |
| – Data governance | – Reference and Master Data | – Metadata |
| – Data steward | – Data integration | – Metadata management |
| – Data Ethics | – Master data management | – Metadata |
| – Data Architecture | – Reference data | – Metadata discovery |
| – Data architecture | – Data Integration and Interoperability | – Metadata publishing |
| – Data flows | – Data movement (Extract, transform, load) | – Metadata registry |
| – Data modeling and Design | – Data Interoperability | – Data Quality |
| – Database & Storage Management | – Documents and Content | – Data cleansing |
| – Data maintenance | – Document management system | – Data integrity |
| – Database administration | – Records management | – Data enrichment |
| – Database management system | – Data Warehousing and Business Intelligence | – Data quality |
| – Business continuity planning | – Business intelligence | – Data quality assurance |
| – Data Security | | – including the following topics but not limited to |
| – Data access | | – Operations management |
| – Data erasure | | |



- Supply chain management
- Management of technology
- New product development and product engineering
- Systems engineering
- Big Data Management
- including the following topics but not limited to
- Manufacturing Engineering
- Engineering management
- Process engineering
- Systems engineering
- Software engineering
- Safety engineering
- Data scien
- Machine learning
- Analytics and data mining
- Cost engineering
- Value engineering
- Predetermined motion time system
- Quality engineering
- Project management
- Supply chain management
- Ergonomics
- Operations management
- Job design
- Financial engineering
- Facility management
- Engineering design process
- Logistics
- Accounting
- Capital projects
- including the following topics but not limited to
- Accounting and Financial Information System
- Adoption of Information Technology in Organizations
- Auditing and IT Governance
- Automated Mediation in Group Support Systems
- Business Strategy and Information Systems
- Distributed Information Systems, Electronic Commerce
- Decision Support System
- E-Business
- e-Business systems integration and standardization
- e-management
- e-banking
- e-marketing
- e-government
- e-entrepreneurship
- e-accounting
- Computerized accounting
- Computerized finance
- e-commerce
- e-supply change
- Business Simulation
- Financial Modelling
- Data Science in Business
- e-consulting
- Electronic negotiation systems and protocols
- Internet payment systems
- e-Procurement methods
- Techniques for B2B e-Commerce
- Global e-Commerce and e-Business
- e-Business models and architectures
- Electronic Commerce
- Engineering and Software Development
- Enterprise Information Systems-ERP
- Human Factors in Information Systems
- Information and Communication Technology
- Information Quality and Strategy
- Information Systems Planning and Management
- Information Systems Management
- Information System and Technology
- Internet Technology
- Information Technology Management
- IT Education And Society
- IT and IS Security
- Knowledge Acquisition, Expert Systems
- Knowledge Based Systems to Support Database Design
- Knowledge Management
- Management Education
- Management Information System
- Object-Oriented Enterprise Modeling
- Operations Management
- Project Management
- Public Policy Management
- Software Copyright Infringements
- Systems Analysis and Design Methods
- Technology and Innovation
- Web Technology and Management
- including the following topics but not limited to
- Data mining
- Decision analysis
- Engineering
- Forecasting
- Game theory
- Mathematical modeling
- Optimization
- Probability and statistics
- Project management
- Psychology
- Simulation
- Social network / Transportation forecasting models
- Sociology
- Supply chain management
- Management Consulting
- statistical learning
- neural network learning
- learning through fuzzy logic
- learning through evolution (evolutionary algorithms)
- reinforcement learning
- multi-strategy learning
- cooperative learning
- planning and learning
- multi-agent learning
- online and incremental learning
- scalability of learning algorithms
- inductive learning
- inductive logic programming
- Bayesian networks
- support vector machines
- case-based reasoning
- machine learning for bioinformatics and computational biology
- multi-lingual knowledge acquisition and representation
- grammatical inference
- knowledge acquisition and learning
- knowledge discovery in databases
- knowledge intensive learning
- knowledge representation and reasoning
- machine learning and information retrieval
- machine learning for web navigation and mining
- learning through mobile data mining
- text and multimedia mining through machine learning
- distributed and parallel learning algorithms and applications
- feature extraction and classification
- theories and models for plausible reasoning
- computational learning theory
- cognitive modeling
- hybrid learning algorithms
- Electronic warfare
- Cyber warfare and information Command, Control and Communications
- e-Learning design and methodologies
- e-Learning portals
- Instructional design methodologies
- Audio and video technologies for e-Learning
- Authoring tools
- e-Learning technologies and tools
- Social impact and cultural issues in e-Learning
- Content management and development
- Policy issues in e-Learning
- On-demand e-Learning
- e-Learning standards
- Online Assessment methodologies
- Knowledge management
- Virtual learning environments
- AI and e-Learning
- On-line education (all levels: elementary, secondary, ...)
- Open-source e-Learning platforms
- Training and evaluation strategies
- e-Universities



- Case studies and emerging applications
- e-learning and online learning
- game-based learning
- instructional technology
- ubiquitous learning and flexible learning
- social media for teaching and learning
- massive open online courses
- open education resources
- online platform and environment
- podcasting and broadcasting
- smart learning environment
- virtual reality for teaching and learning
- learning analytics and education big data
- institutional policies and strategies
- Modelling and simulation
- Security, surveillance and reconnaissance
- IT management
- Ad hoc, mesh, sensor networks
- Cognitive network applications
- Cooperative diversity and physical layer network coding
- Cross-genre networks; Disruption-tolerant networks
- Hybrid optical/RF networks
- Mobility management
- Next-generation wireless networks
- Optical networks
- Personal area and body area networks
- Protocols: MAC, link-layer, network, transport
- Scalability of RF networks, Network control
- Smart Technology
- Smart grid
- Smart home
- Smart country
- Smart defence technology
- Smart military base
- Smart sensors.
- Military vehicle design
- Vehicle performance and survivability
- Platform structural design and analysis
- Dynamics and controls
- Acoustics
- Materials and processing
- Heat transfers
- Weapon system design
- Vehicle verification and validation
- Flight tests
- Aircraft design
- Platform aerodynamics
- Guidance and navigation
- System identification
- Simulations
- Hardware-in-the-loop simulations
- Sensor Explosions
- Electromagnetics
- Radio
- Control systems
- Power electronics and power drives
- Embedded systems
- Internet of Things
- Micro Electro Mechanical Systems
- Mechatronics; Communication Systems
- Wireless technologies
- Physical sensors
- Sensor networks
- Sensor applications
- Sensor fusion
- Wired and wireless sensors systems
- Radar technologies
- Surveillance technologies
- Radar networking
- Cognitive radars
- Passive radar
- Ground based, shipborne, airborne, and space based radars
- Synthetic aperture radars.
- Applications of defence technology for noncombatant operations
- Anti-terrorism
- Technology in counter-drug operations
- Risk analysis
- Safe city
- Military Cybernetics and Robotic Systems
- Military Engineering, Geospatial and Meteorological Support
- Weapon Systems
- Special and Combat Vehicles Systems
- civil-military disaster management technologies and systems
- Situational Awareness for Computer Networks Defense
- Computer Network Defense
- Cyber Situation Awareness
- Intelligence technologies
- Correlation & Automation
- Collaborative Situation Awareness for Decision Making
- Collaborative Defense Approach
- Fraud detection
- Situation Assessment & Decision Making
- Defense Strategy for the Enhancement of Situational Awareness
- Risk Management, Governance and Compliance
- Trust, Privacy and Anonymity Issues
- Financial technologies
- Digital Forensic Information Analysis
- Enterprise Information Security Policies, Standards and Procedures
- Risks posed by Wireless Networks, including through the use of
- Mobile Computing, BYOD, Wearable in CND environment
- Economic predictive and Analytic Technologies
- Cyber Situational Awareness Tools & Techniques
- Fuzzy Logic
- Rough Set
- Artificial Neural Networks
- Artificial Intelligence
- Genetic Algorithm
- Evidence Theory (DST)
- Bayesian Networks & Set Theory
- Big Data Analytics
- Game Theory
- Graph Theory
- Network Situational Awareness
- Cyber Attack Scenarios
- Situation-Aware and Context-Aware Network Applications
- CERTs and CSIRTs
- Security Event and Information Management
- Application Security, Audits and Penetration Testing
- National and Critical Infrastructure Security Issues
- Information Security
- Community Structure Detection
- Link Prediction
- Large-scale Graph Analysis
- Recommendation Systems and Networks
- Information Spreading in Social Media
- Biological and Technological Complex Networks
- Ordinary differential equations
- Partial differential equations
- Difference equations
- Dynamical systems
- Fractional calculus
- Fuzzy systems
- Stochastic Processes
- Integral and Differential Operators
- Special functions
- Numerical Methods in Complex Analysis
- Numerical Methods in Linear Algebra
- Numerical Simulation
- Discrete Mathematics
- Applications
- Applied mathematics
- Fractional calculus and its applications
- Optimization and control in engineering
- Mathematical modelling with engineering applications
- Non-linear dynamical systems and chaos
- Operational research
- Fractional calculus
- Advanced Analysis
- Special Functions
- Differential Equations



- Fluid dynamics
- Applied Statistics
- Approximation Theory
- Automation
- Chaos Theory
- Relativity and Cosmology
- Circuits and Networks
- Complexity Theory
- Computational Mechanics
- Computational Engineering
- Continuous Modelling
- Control Theory
- Cyber Security
- Cyber Security
- Database Security
- Application Security
- Law Enforcement and Surveillance
- Border Protection and Controls
- Cyber Warfare and Counter Terrorism
- Situation Awareness in Military Operations
- Military Doctrinal in Situation Awareness
- C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance)
- Computer Network Operations
- Computer Network Defense
- Mission Awareness, Command and Control
- Analysis of Large-Scale Internet Traffic
- Attack Graphs
- Advanced Security Incident Analysis
- security
- law, policy and strategy related with defense technology and security
- System randomization
- Artificial diversity
- Cyber maneuver and agility
- Software diversity
- Dynamic network configuration
- Moving target in the cloud
- System diversification techniques
- Dynamic compilation techniques
- Adaptive defenses
- Intelligent countermeasure selection
- MTD strategies and planning
- Deep learning for MTD
- MTD quantification methods and models
- MTD evaluation and assessment frameworks
- Large-scale MTD (using multiple techniques)
- Moving target in software coding, application API virtualization
- Autonomous technologies for MTD
- Theoretic study on modeling trade-offs of using MTD approaches
- Human, social, and usability aspects of MTD
- Measurement studies
- Cyber warfare attacks and defense
- Social cyber-attacks and defense
- Memory exploitation
- Applied cryptography
- Network protocol vulnerability analysis
- Blockchain attacks
- Reverse engineering, and reverse engineering Automation
- Operational experience and case studies
- Malware infection vectors (drivebys, worms, mobile exploits, etc.)
- Phishing
- Applied decryption techniques
- Eavesdropping
- SPAM
- Attacks and Defense of emerging technologies
- Carding and identity theft
- Hardware vulnerabilities
- Insider threat detection and prevention
- Application of data science to cyber attacks and defense
- Attacks against distributed cloud storage
- Target and Background Signatures
- Electro-Optical and Infrared Systems: Technology and Applications
- Electro-Optical Remote Sensing Technologies for Optical Countermeasures
- High Power Lasers: Technology and Systems, Platforms, Effects
- Advanced Free-Space Optical Communication Techniques and Applications
- Emerging Technologies
- Millimetre Wave and Terahertz Sensors and Technology
- Optical Materials and Biomaterials in Security and Defence Systems Technology
- Counterterrorism, Crime Fighting, Forensics, and Surveillance
- Quantum Technologies and Quantum Information Science
- Unmanned Sensors and Systems and Countermeasures
- Advanced Manufacturing Technologies for Micro- and Nanosystems in Security and Defence
- NEW - Artificial Intelligence and Machine Learning in Defence Applications
- Social media and related regime conflicts
- Social media and the Occupy movement
- Social media and student protests / austerity protests
- Social media and riots / social unrest in urban areas
- Social media and political protests and activism
- Social media and marginal political groups
- Etc.

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Registration for Full Paper \$300 (Short paper 3-4 pages and Full paper 5-6 pages IEEE Paper template <http://icspn.ghsociety.org/template.doc>) This covers presentation and conference participation.

Registration for Abstract Only \$100. (Title, Name of Authors, Affiliation, Abstract and Key words) This covers presentation and conference participation.

All selected papers further qualified for future advancement/improvement of work-done for Special Issues in reputable Journals and Book Chapters to be indexed in reputable places such as SCOPUS. Authors will be



contacted in the future for submissions to these call for papers. All selected abstracts qualify for such invitations.

Submission link: <https://cmt3.research.microsoft.com/ICDSA2019>

Website : <http://icdsa.ghsociety.org/>

Deadline for full papers submission :

~~20th May 2019~~ Extended to 13th July 2019

Final notification of acceptance :

~~25th May 2019~~ Extended to 15th July 2019

Deadline for Camera-ready :

~~28th May 2019~~ Extended to 16th July

Conference date : 17th to 19th July 2019

Venue : Ghana Technology University College, Accra Ghana.