Third International Symposium on Cyber Security, Cryptology, and Machine Learning
June 27-28, 2019, Beer-Sheva, Israel

http://www.cs.bgu.ac.il/~fradmin/cscml19

General Chairs and Conference Committee
Shlomi Dolev, Co-Chair Ben-Gurion Univ., Israel
Sachin Lodha, Co-Chair Tata CS, India
Timi Budai, Org. Co-Chair Ben-Gurion Univ., Israel
Simcha Mahler, Org. Co-Chair Ben-Gurion Univ., Israel

Partial List Academic Research Track PC
Adi Akavia Univ. of Haifa, Israel
Amir Averbuch Tel-Aviv Univ., Israel
Silvia Bonomi Sapienza Univ. of Rome, Italy
Anat Bremler-Barr IDC Herzliya, Israel
Emilio Coppa Sapienza Univ. of Rome, Italy
Antonella Del Pozzo CEA List, France
Itai Dinur Ben-Gurion Univ., Israel
Orr Dunkelman Univ. of Haifa, Israel
Karim ElDefrawy SRI International, USA
Bezalel Gavish Southern Methodist Univ., USA
Niv Gilboa Ben-Gurion Univ., Israel
Ehud Gudes Ben-Gurion Univ., Israel
Shay Gueron Univ. of Haifa, Israel & AWS, USA
Danny Hendler, Co-Chair Ben-Gurion Univ., Israel
Stratis Ioannidis Northeastern Univ., USA
Gene Itkis MIT Lincoln Laboratory, USA
Bhavana Kanukurthi IISc, India
Ben Kreuter Google, USA
Mark Last Ben-Gurion Univ., Israel
Ximing Li South China Agricultural Univ., China
Yin Li Xinyang Normal Univ., China
Avi Mendelson Technion, Israel
Aikaterini Mitrokosta Chalmers Univ. of Tech. Sweden
Kobbi Nissim Georgetown Univ., USA
Yossi Oren Ben-Gurion Univ., Israel
Haim Permuter Ben-Gurion Univ., Israel
Giuseppe Persiano UNIS, Italy
Benny Pinkas Bar Ilan Univ., Israel
Christian Riess Univ. of Erlangen-Nuremberg, Germany
Or Sattath Ben-Gurion Univ., Israel
Elad Michael Schiller Chalmers Univ. of Tech., Sweden
Gil Segev Hebrew Univ., Israel
Paul Spirakis U. of Liverpool, UK & U. of Patras, Greece
Kannan Srinathan IIT Hyderabad, India
Utri Stemmer Ben-Gurion Univ., Israel
Ari Trachtenberg Boston Univ., USA
Philippas Tsigas Chalmers Univ. of Tech., Sweden
Doug Tygar UC Berkeley, USA
Kalyan Veeramachaneni MIT, USA
Colin Wilmott Nottingham Trent Univ., UK
Rebecca Wright Barnard College & Columbia Univ., USA
Moti Yung, Co-Chair Columbia Univ. & Google, USA

Partial List Entrepreneurship Track PC
Muli Ben-Yehuda Technion & IBM Research, Israel
Yonah Alexandre Bronstein ASTAV, inc., Israel
Shlomo Gradman ASG, Ltd, Israel
Sachin Lodha Tata CS, India
Oded Margalit Ben-Gurion Univ. & IBM, Israel
Dan Touitou Huawei Systems, Israel

Steering Committee
Orna Berry DELLEMC, Israel
Shlomi Dolev, Chair Ben-Gurion Univ., Israel
Yuval Elovici Ben-Gurion Univ., Israel
Bezalel Gavish Southern Methodist Univ., USA
Ehud Gudes Ben-Gurion Univ., Israel
Jonathan Katz Univ. of Maryland, USA
Rafail Ostrovsky UCLA, USA
Jeffrey D. Ullman Stanford Univ., USA
Kalyan Veeramachaneni MIT, USA
Yaron Wolfshal IBM, Israel
Moti Yung Columbia Univ. & Google, USA

Dates
Submission deadline February 14, 2019
Acceptance notification March 20, 2019
Camera-ready copy due March 31, 2019

The submission deadline is firm.

Scope. Original contributions to the theory, design, analysis, implementation, or application of cyber security, cryptography and machine learning systems and networks, and, in particular, of conceptually innovative results are solicited. Topics of interest include, but are not limited to:

- **Cyber Security Design** Secure Software Development methodologies, Formal methods, Semantics and verification of secure systems, Fault tolerance, Reliability, Availability of distributed secure systems, Game-theoretic approaches to secure computing, Automatic recovery, Self-stabilizing, and self-organizing systems, Communication, Authentication and identification, Cyber security for mobile and Internet of Things, Cyber security of corporations, Security and privacy for cloud, Edge and fog computing, Cryptocurrency, and Blockchain

- **Cryptography** Cryptographic implementation analysis and construction, Secure multi-party computation, Privacy-enhancing technologies and anonymity, Post-quantum cryptography and security

- **Machine Learning & Big Data** Anomaly detection and malware identification, Business Intelligence and Security, Digital forensics, Digital rights management, Trust management and reputation systems, Information retrieval, Risk analysis, DoS

Conference presentations will have two formats (you can find more information about the formats from last year's event by clicking on the following link: [https://www.cs.bgu.ac.il/~fradmin/cscml18/submission.html])

1. **Regular presentations** of 25 minutes accompanied by papers of up to 15 pages in the proceedings. This form is intended for contributions reporting on original research, submitted exclusively to this conference.

2. **Entrepreneurship pitch** of 5 to 10 minutes accompanied by six page abstracts/pitch presentation. (See also: [https://www.cs.bgu.ac.il/~frankel/TechnicalReports/2018/18-04.pdf])

**Submission.** Papers are to be submitted electronically, following the guidelines available on the conference web page.

Each submission must be in English, in PDF format, and begin with a cover page including: (1) the title, (2) the names and affiliations of all authors, (3) contact author’s email, address and telephone number, (4) a brief, one paragraph abstract of the paper, (5) indication whether the paper is a regular submission, or an entrepreneurship pitch submission (the authors of the entrepreneurship pitch track please note that the submissions will not be NDA protected).

A regular submission must not exceed 15 (LNCS formatted) single-column pages in the proceedings. This form is intended for contributions reporting on original research, submitted exclusively to this conference.

A regular submission must not exceed 15 (LNCS formatted) single-column pages (excluding cover page and references). Additional necessary details may be included in a clearly marked appendix that will be read at the discretion of the program committee. An entrepreneurship pitch submission must not exceed 6 single-column pages. All submissions must use LNCS format. Any submission deviating from these guidelines will be rejected without consideration of its merit.

It is recommended that a regular submission begin with a succinct statement of the problem or the issue being addressed, a summary of the main results or conclusions, a brief explanation of their significance, a brief statement of the key ideas, and a comparison with related work, all tailored to a non-specialist.

Additional Planned Events. PhD Track and Capture the Flag Hackathon are planned to take place at CSCML 2019.