

CIAA 2023 SEPTEMBER 19 - 22 , 2023

19 September 2023 TUESDAY

08:30 – 11:45 **REGISTRATION**

11:50 – 12:50

Invited/Plenary Speech: **FRIEDRICH OTTO**

CHAIR: *Benedek Nagy*

A Survey on Automata with Translucent Letters

12:50 – 14:15

LUNCH BREAK

14:15 – 14:30

Official Opening, Welcome Speech:

AYKUT HOCANIN / Rector, Eastern Mediterranean University (EMU)

HÜSEYİN AKTUĞLU / Vice Rector, EMU

MEHMET ALİ ÖZARSLAN / Dean, EMU Faculty of Arts and Sciences

BENEDEK NAGY / Conference Chair, EMU

SESSION A

SESSION CHAIR	<i>Bianca Truthe</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
14:30 – 15:00	Smaller Representation of Compiled Regular Expressions	Sicheol Sung, Yo-Sub Han / Sang-Ki Ko
15:00 – 15:30	The Pumping Lemma for Regular Languages is Hard	Markus Holzer / Hermann Gruber, Christian Rauch

15:30 – 16:00

COFFEE BREAK

SESSION B

SESSION CHAIR	<i>Brink Van der Merwe</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
16:00 – 16:30	A Time to Cast Away Stones	Olga Martynova, Alexander Okhotin
16:30 – 17:00	Enhanced Ternary Fibonacci Codes	Shmuel T. Klein / Dana Shapira

CIAA 2023 SEPTEMBER 19 - 22 , 2023

20 September 2023 WEDNESDAY

08:30 – 9:00 REGISTRATION

09:00 – 10:00

Invited/Plenary Speech: CEM SAY

CHAIR: *Rogério Reis*

Finite Automata as Verifiers

10:00 – 10:30	C O F F E E B R E A K
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SESSION C

SESSION CHAIR	<i>Yo-Sub Han</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
10:30 – 11:00	Weighted Bottom-Up and Top-Down Tree Transformations Are Incomparable	Andreas Maletti / Andreea-Teodora Nász
11:00 – 11:30	Deciding Whether an Attributed Translation Can Be Realized by a Top-Down Transducer	Sebastian Maneth, Martin Vu
11:30 – 12:00	On the Smallest Synchronizing Terms of Finite Tree Automata	Štěpán Plachý / Václav Blažej, Jan Janoušek

12:00 – 14:00	L U N C H B R E A K
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SESSION D

SESSION CHAIR	<i>Galina Jirásková</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
14:00 – 14:30	Two-Way Machines and de Bruijn Words	Luca Prigioniero / Giovanni Pighizzini
14:30 – 15:00	Constrained Multi-Tildes	Samira Attou / Ludovic Mignot, Clément Miklarz, Florent Nicart

15:00 – 15:30	C O F F E E B R E A K
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SESSION E

SESSION CHAIR	<i>Hiroyuki Seki</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
15:30 – 16:00	M-equivalence of Parikh Matrix over a Ternary Alphabet	Joonghyuk Hahn, Hyunjoon Cheon, Yo-Sub Han
16:00 – 16:30	Operational Complexity in Subregular Classes	Michal Hospodár, Galina Jirásková

CIAA 2023 SEPTEMBER 19 - 22 , 2023
21 September 2023 THURSDAY

08:30 – 9:00 **REGISTRATION**

09:00 – 10:00

CHAIR: *Alexander Okhotin*

Invited/Plenary Speech: **VILIAM GEFFERT**

Binary Coded Unary Regular Languages

10:00 – 10:30	C O F F E E B R E A K
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SESSION F

SESSION CHAIR	<i>Markus Holzer</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
10:30 – 11:00	Sweeping Input-Driven Pushdown Automata	Martin Kutrib
11:00 – 11:30	Sweep Complexity Revisited	Szilárd Zsolt Fazekas / Robert Mercas
11:30 – 12:00	Average Complexity of Partial Derivatives for Synchronised Shuffle Expressions	Nelma Moreira, Rogério Reis / Sabine Broda, António Machiavelo
12:00 – 12:30	When Is Context-Freeness Distinguishable from Regularity? an Extension of Parikh’s Theorem	Yusuke Inoue, Hiroyuki Seki / Kenji Hashimoto

12:30 – 14:00	L U N C H B R E A K
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14:00 – **SOCIAL PROGRAM, BUS STARTS FROM THE FRONT OF THE BUILDING**

CIAA 2023 SEPTEMBER 19 - 22 , 2023

22 September 2023 FRIDAY

SESSION G

SESSION CHAIR	<i>Szilárd Zsolt Fazekas</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
9:00 – 9:30	Transduction of Automatic Sequences and Applications	Anatoly Zavyalov / Jeffrey Shallit
9:30 – 10:00	Universal First-Order Quantification over Automata	Bernard Boigelot, Baptiste Vergain / Pascal Fontaine

10:00 – 10:30	C O F F E E B R E A K
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SESSION H

SESSION CHAIR	<i>Andreas Maletti</i>	
TIME	PAPER TITLE	PRESENTER / CO AUTHOR
10:30 – 11:00	Measuring Power of Generalised Definite Languages	Ryoma Sin'ya
11:00 – 11:30	Earliest Query Answering for Deterministic Stepwise Hedge Automata	Antonio Al Serhali / Joachim Niehren
11:30 – 12:00	Verified Verifying: SMT-LIB for Strings in Isabelle	Anders Schlichtkrull / Kevin Lotz, Mitja Kulczynski, Dirk Nowotka, Danny Bøgsted Poulsen

12:00 – 12:20 **CLOSING REMARKS, CIAA 2024 presentation**

12:20 –	L U N C H B R E A K
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END OF CIAA 2023 CONFERENCE