

## MONDAY

MONDAY		
9:45 - 10:45	<b>Keynote: Juliana Freire</b>	<b>Dataset Search for Data Discovery, Augmentation, and Explanation</b>  <i>Session chair: Ricardo Baeza-Yates</i>
11:20 - 13:00	<b>Session 1: Grammar- and LZ-based compression</b> <i>Session chair: Gonzalo Navarro</i>	
	Alan Cleary, Joseph Winjum, Jordan Dood and Shunsuke Inenaga	Revisiting the Folklore Algorithm for Random Access to Grammar-Compressed Strings
	Akito Takasaka and Tomohiro I	Space-efficient SLP Encoding for $O(\log N)$ -time Random Access
	Hiroki Shibata and Dominik Köppl	LZ78 Substring Compression with CDAWGs
	Wataru Sumiyoshi, Takuya Mieno and Shunsuke Inenaga	Faster and simpler online/sliding rightmost Lempel-Ziv factorizations
14:30 - 16:00	<b>Session 2: Data structures</b> <i>Session chair: Hideo Bannai</i>	
	Gonzalo Navarro and Josefa Robert	Compressed Graph Representations for Evaluating Regular Path Queries
	Ruben Becker, Sung-Hwan Kim, Nicola Prezza and Carlo Tsoni	Indexing Finite-State Automata Using Forward-Stable Partitions
	Gonzalo Navarro	Adaptive Dynamic Bitvectors
	Aaron Hong, Christina Boucher, Travis Gagie, Yansong Li and Norbert Zeh	Another virtue of wavelet forests (short paper)
16:30 - 17:45	<b>Session 3: String algorithms and indexing I</b> <i>Session chair: Shunsuke Inenaga</i>	
	Davide Cenzato, Francisco Olivares and Nicola Prezza	On Computing the Smallest Suffixient Set
<i>Best paper</i>	Anouk Duyster and Tomasz Kociumaka	Logarithmic-Time Internal Pattern Matching Queries in Compressed and Dynamic Texts
	Dina Sokol, Shoshana Marcus and Sarah Zelikovitz	2d Side-Sharing Tandems with Mismatches

## TUESDAY

TUESDAY		
9:00 - 10:00	<b>Keynote: Marinella Sciortino</b>	<b>Exploring Repetitiveness in Texts: From BWT to Morphisms</b>  <i>Session chair: Zsuzsanna Lipták</i>
10:30 - 12:10	<b>Session 4: Combinatorics on words</b> <i>Session chair: Sharma Thankachan</i>	
	Jakub Radoszewski and Wiktor Zuba	Computing String Covers in Sublinear Time
	Rikuya Hamai, Kazushi Taketsugu, Yuto Nakashima, Shunsuke Inenaga and Hideo Bannai	On the Number of Non-equivalent Parameterized Squares in a String
	Yuki Yonemoto and Shunsuke Inenaga	Simple linear-time repetition factorization
	Jakub Radoszewski, Wojciech Rytter and Tomasz Waleń	Faster Algorithms for Ranking/Unranking Bordered and Unbordered Words

**WEDNESDAY**

9:00 - 10:00	<p><b>Keynote: Gerardo Sierra</b></p> <p style="text-align: right;"><b>Preservation and Accessibility of Documentary Heritage</b></p> <p style="text-align: right;"><i>Session chair: Karina Mariela Figueroa Mora</i></p>	
10:05 - 11:00	<p style="text-align: center;"><b>Session 5: String algorithms and indexing II</b></p> <p style="text-align: center;"><i>Session chair: Christina Boucher</i></p>	
	Peaker Guo, Seeun William Umboh, Anthony Wirth and Justin Zobel	Online Computation of String Net Frequency
	Enno Ohlebusch, Thomas Büchler and Jannik Olbrich	Faster computation of Chinese frequent strings and their net frequencies (short paper)
	Arnab Ganguly, Daniel Gibney, Paul MacNichol and Sharma V. Thankachan	Bounded-Ratio Gapped String Indexing (short paper)
11:30 - 13:00	<p style="text-align: center;"><b>Session 6: Repetitiveness measures and string algorithms</b></p> <p style="text-align: center;"><i>Session chair: Jakub Radoszewski</i></p>	
	Daniel Gibney and Md Helal Hossen	Quantum Algorithms for Longest Common Substring with a Gap
	Amihood Amir, Eitan Kondratovsky, Shoshana Marcus and Dina Sokol	Linear Time Reconstruction of Parameterized Strings from Parameterized Suffix and LCP Arrays for Constant-Sized Alphabets
	Lorenzo Carfagna, Giovanni Manzini, Giuseppe Romana, Marinella Sciortino and Cristian Urbina	Generalization of Repetitiveness Measures for Two-Dimensional Strings
	Golnaz Badkobeh, Hideo Bannai and Dominik Köppl	Bijjective BWT based Compression Schemes (short paper)
14:30 - 16:10	<p style="text-align: center;"><b>Session 7: Computational biology motivated problems</b></p> <p style="text-align: center;"><i>Session chair: Nadia Pisanti</i></p>	
	Maksim Nikolaev	Greedy Conjecture for the Shortest Common Superstring Problem and its Strengthenings
	Mathieu Gascon, Mattéo Delabre and Nadia El-Mabrouk	Simultaneously Building and Reconciling a Synteny Tree
	Masaru Kikuchi and Shunsuke Inenaga	All-Pairs Suffix-Prefix on Dynamic Set of Strings
	Itai Boneh, Shay Golan, Avivit Levy, Ely Porat and B. Riva Shalom	Burst Edit Distance



19TH WORKSHOP ON COMPRESSION,  
TEXT, AND ALGORITHMS  
**WCTA 2024**

**THURSDAY**

9:00 - 10:00	<b>Keynote:</b> <b>Tomohiro I</b>	<b>Constructing Compact Indexes for Parameterized Pattern Matching</b>  <i>Session chair: Yuto Nakashima</i>
10:10 - 11:25	<b>Session 1</b> <i>Giuseppe Romana</i>	
	Rocco Ascone	A unifying taxonomy of pattern matching in degenerate strings and founder graphs
	Alessio Campanelli	Where the patterns are: repetition-aware compression for colored de Bruijn graphs
	Francisco Olivares	Near-Optimal Search Time in $\delta$ -Optimal Space, and Vice Versa
11:45 - 13:00	<b>Session 2</b> <i>Session chair: Tomohiro I</i>	
	Alejandro Pacheco	Counting on General Run-Length Grammars
	Joseph Winjum	Space Efficiency in Grammar Compressed Strings with Bitpacking
	Cristian Urbina	Generalized Straight-Line Programs
14:30 - 15:45	<b>Session 3</b> <i>Session chair: Gonzalo Navarro</i>	
	Peaker Guo	New Properties of Fibonacci and Thue-Morse Words Resolve Conjecture on Net Frequency
	Daniel Puttini	Near-Optimal Time Construction of Minimum Wheeler DFAs
	Davide Cenzato	On computing the deterministic colex width of regular languages



## General program

<b>31st International Symposium on String Processing and Information Retrieval</b>  <b>SPIRE 2024</b>  September 23-25 <sup>th</sup>			19th Workshop on <i>compression, text,            and algorithms</i>  WCTA 2024  Sept 26 <sup>th</sup>	
<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	
9:00 - 9:30 Registration	9:00 - 10:00 <b>Keynote</b> Marinella Sciortino	9:00 - 10:00 <b>Keynote</b> Gerardo Sierra	9:00 - 10:00 <b>Keynote</b> Tomohiro I	
9:30 - 9:45 Opening	10:00 - 10:30 coffee break	10:00 - 10:05 mini-break	10:00 - 10:10 mini-break	
9:45 - 10:45 <b>Keynote</b> Juliana Freire	10:30 - 12:10 Session 4: Combinatorics on words	10:05 - 11:00 Session 5: String algorithms & indexing II	10:10 - 11:25 Session 1 (3 talks)	
10:45 - 11:20 coffee break	12:30 - 13:30 lunch	11:00 - 11:30 coffee break	11:25 - 11:45 coffee break	
11:20 - 13:00 Session 1: Grammar- and LZ-based compression	Afternoon Tour to Botanical Gardens   from 20:30 Conference dinner	11:30 - 13:00 Session 6: Repetitiveness measures and string algorithms	11:45 - 13:00 Session 2 (3 talks)	
13:00 - 14:30 lunch		13:00 - 14:20 lunch	13:00 - 14:20 lunch	
14:30 - 16:00 Session 2: Data structures		14:20 - 14:30 coffee break	14:20 - 14:30 coffee break	
16:00 - 16:30 coffee break		14:30 - 16:10 Session 7: Computational biology motivated problems	14:30 - 15:45 Session 3 (3 talks)	
16:30 - 17:45 Session 3: String algorithms & indexing I		16:10 - 16:20 Closing		
17:45 - 17:50 mini-break				
17:40 - open Business Meeting				