

Schedule of the ICANTA'5 2026 International Congress

May 20–23, 2026, Faculty of Sciences, Mohammed Premier University, Oujda-Morocco



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Wednesday, May 20th, 2026

08h30 – 09h30	Welcome and Registration
09h30 – 10h30	Opening and Tribute Ceremony (Amphi/Hall G)
10h30–11h00	<i>Coffee Break</i>
Chair: B. SODAÏGUI (Amphi/Hall G)	
11h00–11h40	Ph. CASSOU-NOGUES. <i>"Torsors and Trace forms"</i>
11h55–12h35	M. WALDSCHMIDT. <i>"Convexity of the fundamental domain of a binary form: the cyclotomic case"</i>
12h50–14h30	<i>Lunch</i>
Chair: H. ASENSOUYIS (Algebra Session: Amphi/Hall M)	
14h30–15h10	N. MAHDOU. <i>"Trivial ring extension of commutative rings, a survey"</i>
15h25–15h55	M. A. DIOMPY. <i>"Rings whose strongly Hopfian modules are Noetherian"</i>
16h05–16h35	A. S. DIABANG. <i>"A Yang–Petro Type Theorem for Real Division Algebras with Left Unit"</i>
Chair: E. M. SOUIDI (Crypto-AI Session: Amphi/Hall G)	
14h30–15h10	M. AZIZI. <i>"A Zero-Trust AI-based Approach to Data security and privacy in EHR Systems"</i>
15h25–15h55	H. BOUDDLAL. <i>"A Real-Time Web-Based Platform for Human Activity Recognition Integrating WiFi CSI and Vision-Based Deep Learning"</i>
16h05–16h35	N-E. RAHMANI. <i>"More on algebraic partial exposure exploitation on HAWK"</i>
16h45–17h15	<i>Coffee Break</i>

Parallel Sessions — Faculty of sciences, Oujda

Chair: N. SNANOU (Session 1: Bloc D)	
17h15–17h30	A. AIT EL MEKKI <i>"On S-pure ideals and S – F rings"</i>
17h35–17h50	M. ASSALAMI. <i>"J-prime ideals of a commutative ring"</i>
17h55–18h10	S. BOUTGHOUCOUT. <i>"Cotorsion Dimension of the Trivial Ring Extension"</i>
Chair: I. JERRARI (Session 2: Bloc D)	
17h15–17h30	B. AABOUN. <i>"Infinite 2-class field towers of real quadratic fields with 2-class rank 2"</i>
17h35–17h50	A. ASSARRAR. <i>"A note on capitulation problem for some imaginary cyclic number fields"</i>
17h55–18h10	F. ELMOUHIB. <i>"Total capitulation of some family of pure metacyclic fields"</i>
Chair: M. TALBI (Session 3: Bloc D)	
17h15–17h30	H. EL MAMRY. <i>"From Iwasawa Theory to Galois Realizations: Greenberg's Conjecture and the Inverse Galois Problem"</i>
17h35–17h50	K. BOULAJHAF. <i>"Cyclicity of the 2-decomposed unramified Iwasawa module"</i>
17h55–18h10	I. DAQAQ. <i>"On real biquadratic number fields for which the rank of the 2-Iwasawa module equals 3"</i>

Chair: T. SERRAJ (Session 4: Bloc D)

- 17h15–17h30 A. AL JARROUDI. "A Survey of Machine Learning and Deep Learning Approaches for DDoS Attack Detection in Vehicular Networks"
- 17h35–17h50 H. AL KADDOURI. "Object Detection for Weed Recognition in Precision Agriculture: A Systematic Review of Methods, Datasets and Embedded Approaches"
- 17h55–18h10 Y. ATMANI. "A Comparative Analysis of Machine Learning and Deep Learning Approaches for Intrusion Detection in IoT/IIoT Networks: Datasets, Feature Selection, and Explainability"

Thursday, May 21th, 2026

Chair: A. MOUHIB (Amphi/Hall M)

- 09h00–09h40 Y. KISHI. "A family of imaginary quadratic fields with class number divisible by 5"
- 09h55–10h35 A. C. MOVAHHEDI. " p -rationality and Leopoldt's conjecture"
- 10h50–11h20 *Coffee Break*

Chair: M. AZIZI (Cryptography Session: Amphi/Hall G)

- 11h20–12h00 A. NITAJ. "The Mathematics of Lattice Based Post-Quantum Cryptography"
- 12h15–12h55 O. RUATTA. "Euclidean codes and their decoding"

Chair: K. MAZHOUDA (Number Theory Session: Amphi/Hall M)

- 11h20–12h00 B. DESCHAMPS. "Around the normal basis"
- 12h15–12h55 L. EL FADIL. "Newton Polygon and extension of valuations"
- 13h10–15h00 *Lunch and Conference Photo*

Chair: J. ASSIM (Number Theory Session: Amphi/Hall M)

- 15h00–15h40 C. GREITHER. "Extensions Hopf-Galoisiennes de dimension infinie, et la correspondance de Hopf-Galois"
- 15h55–16h25 Y. MAZIGH. "A Gras-Type Approach to the Equivariant Tamagawa Number Conjecture through Rubin-Stark Units"
- 16h35–17h05 S. EL BOUKHARI. "Complexes quadratiques dans la catégorie dérivée et cohomologie de Weil-étale"

Chair: L. EL FADIL (Number Theory Session: Amphi/Hall G)

- 15h00–15h40 A. KACHA. "On the algebraic independence of three p -adic continued fractions"
- 15h55–16h25 O. FALL. "Three-variable functions to construct interleaved sequences over \mathbb{F}_3 "
- 16h35–17h05 M. REZZOUGUI. "Capitulation des 2-classes d'idéaux de type $(2, 2^m)$ et applications"
- 17h15–17h45 *Coffee Break*

Parallel Sessions — Faculty of sciences, Oujda

Chair: M. A. AMRI (Session 1: Bloc D)

- 17h45–18h00 A. EL MAHI. "Real quadratic fields with cyclic 2-class group of the Hilbert 2-class field and $Cl_2(k) \simeq (2^m, 2^n)$ with $m, n \geq 2$ "
- 18h05–18h20 H. BOUBKER. "A family of real biquadratic fields with Euclidean ideal class"
- 18h25–18h40 M. HAYNOU. "On the Arithmetic Statistics of Real Pure Quartic Fields by 2-Class Group Structure"
- 18h45–19h00 E. K. BOUFARAA. "The reduced ideals of an imaginary cyclic quartic field"

Chair: M. A. DIOMPY (Session 2: Bloc D)

- 17h45–18h00 I. EL KHAIR. "On rings satisfying the S -ascending chain condition on divisibility"
- 18h05–18h20 A. OUDIKA. "The $\mathcal{F}_\kappa(I)$ -limit on the ring of continuous functions"
- 18h25–18h40 M. FADEL. "Sur les polynômes tordus à valeurs entières"
- 18h45–19h00 H. FIHI. "Connection between two derivations and symmetric elements in prime rings with involution"

Chair: A. DIABANG (Session 3: Bloc D)

17h45–18h00	S. NGADI. <i>"Solving Linear Systems via Spline Quasi-Interpolation"</i>
18h05–18h20	A. LAHLOU. <i>"Group structure of elliptic curve over the ring $\mathbb{F}_q[x]/(x^{m+n} - x^m)$"</i>
18h25–18h40	N. GUENNACH. <i>"Graded Divided Domains"</i>
18h45–19h00	K. ASSILA. <i>"$C_1 - C_3$ Backbone for Zero-Divisor Graphs over $\mathbb{Z}/n\mathbb{Z}$: Graph Structure from Prime Factorization"</i>

Chair: H. BOUDLAL (Session 4: Bloc D)

17h45–18h00	K. BENAMAR. <i>"Developing an AI-powered system for analyzing audio quality"</i>
18h05–18h20	N-E. RAHMANI. <i>"More on algebraic partial exposure exploitation on HAWK"</i>
18h25–18h40	K. ITRO. <i>"A Cross-Tier Review of Attacks and Targeted Security Solutions in Medical WBANs"</i>
18h45–19h00	S. CHALLI. <i>"Recent Advances in Constructing Signatures from the Syndrome Decoding Problem"</i>

Chair: E. LAAJI (Session 5: Bloc D)

17h45–18h00	O. DÈME. <i>"A contribution to RSA security"</i>
18h05–18h20	C. DKHISSI. <i>"A Systematic Review of Real-Time Multi-Human Tracking: From Correlation Filters to Transformers"</i>
18h25–18h40	S. EL HALFA. <i>"On the Resilience of ASCON to Deep Learning-Based Side-Channel Analysis"</i>
18h45–19h00	H. IFRAH. <i>"Trustworthy AI for Electronic Health Records: A Critical Review of Federated Learning, Explainability, and Cybersecurity Risks"</i>

Friday, May 22th, 2026

Chair: A. BAYAD (Amphi/Hall M)

09h00–09h40	H. OUKHABA. <i>"Autour des fonctions zêta des courbes sur les corps finis"</i>
09h55–10h35	K. MAZHOUDA. <i>"Superzeta functions and τ-li coefficients in the Selberg class"</i>
10h50–11h20	<i>Coffee Break</i>

Chair: N. OUERDI (Amphi/Hall M)

11h20–12h00	H. BEN-AZZA. <i>"Conception de Blockchaines Multidimensionnelles"</i>
12h15–12h55	E. M. SOUIDI. <i>"Post-Quantum Cryptography for IoT: Challenges and Practical Solutions"</i>
13h10–15h00	<i>Lunch</i>

Free Afternoon

Saturday, May 23th, 2026

Chair: C. GREITHER (Amphi/Hall M)

09h00–09h40	C. LEVESQUE. <i>"Un plan projectif fini d'ordre n existe si et seulement si n est une puissance d'un premier"</i>
09h55–10h35	B. SODAÏGUI. <i>"Steinitz classes of nonabelian Galois extensions and p-ary cyclic Hamming codes"</i>
10h50–11h20	<i>Coffee Break</i>

Chair: H. OUKHABA (Amphi/Hall M)

11h20–12h00	Pi. CASSOU-NOGUES. <i>"Decorated trees and numerical semigroups"</i>
12h15–12h55	A. BAYAD. <i>"Eisenstein Series and Partitions functions"</i>
13h10–13h40	A. GALANAKIS. <i>"Stickelberger Elements via Adelic Eisenstein Classes"</i>
13h50–15h00	<i>Lunch</i>

Chair: Y. DOUZI (Session 1: Bloc D)

- 15h00–15h30 E. H. LAAJI. "An Efficient Polynomial Multiplication Method over polynomial ring R "
- 15h40–15h55 S. BELCAID. "Homotopy Coherence in Enriched and Equivariant Settings"
- 16h00–16h15 Y. ZAIM. "A Family of MDS Codes from Galois Number Fields with Complete Splitting Primes"
- 16h20–16h35 N. E. H. RAHMANI. "An AI-Based Agent for Real-Time Detection of Random Fault Attacks on Elliptic Curve Cryptosystems"
- 16h40–16h55 M. SOW. "McEliece Key based on Quasi-Centrosymmetric Srivastava Codes"

Chair: S. EL BOUKHARI (Session 2: Bloc D)

- 15h00–15h30 E. H. SOW. "Algebraic Points on the Mulholland-Siksek Curve"
- 15h40–15h55 M. TAMIMI. "On the capitulation of the 2-ideal classes of the field $K = \mathbb{Q}(\sqrt{pq_1q_2\epsilon_0\sqrt{\ell}})$ "
- 16h00–16h15 A. SBAI. "Cyclicity of the Iwasawa module of certain biquadratic number fields"
- 16h20–16h35 A. AL UARTASSI. "The 2-Primary Part of the Class Group of Real Pure Quartic Fields"
- 16h40–16h55 H. BOUAOUINA. "Families of Sextic Number Fields with Prescribed Indices"
- 17h00–17h15 A. LARHLID. "On a Variant of Pillai's Problem with Tribonacci Numbers and S -Units"

Chair: E. H. SOW (Session 3: Bloc D)

- 15h00–15h15 M. FARIS. "On monogeneity of certain pure number fields defined by $x^{2^u \cdot 3^v \cdot 7^t} - m$ "
- 15h20–15h35 A. EL ATTRASSI. "Explicit Formula for Polynomial Bessel Series"
- 15h40–15h55 A. EBADI. "On the Zeros of the Riemann Zeta Function with Two Ordinate Shifts"
- 16h00–16h15 Y. EL KAOUNI. "An upper bound for the Lang-Trotter conjecture for a pair of elliptic curves"
- 16h20–16h35 P. PATEL. "A new family of Brown-Myers type elliptic curves: Mordell-Weil rank and 2-Selmer group"
- 16h40–16h55 A. BEN AMAR. "On the cyclotomic \mathbb{Z}_2 -extension of some real quadratic number fields"

Chair: Z. MELLAH (Session 4: Bloc D)

- 15h00–15h15 O. KAIBI. "Interpretable Artificial Intelligence Models for Predicting Irrigation Water Suitability"
- 15h20–15h35 M. RAHMANI. "An Improved Attack on Some Algebraic RSA Variants"
- 15h40–15h55 Z. OUMAZOUZ. "A Structural Theory of the Equivalent Local Sequence Problem and Its Cryptographic Implications"
- 16h00–16h15 A. SEGHROUCHNI. "A Bootstrap Analysis of Feature Selection Methods for Malware Detection"
- 16h20–16h35 B. CHNIOUNE. "Revisited Partial Key Exposure Attack against RSA"
- 16h40–16h55 C. KADDOURI. "A Novel CRT Legendre S -box Construction for Lightweight Encryption"

Chair: T. SERRAJ (Session 5: Bloc D)

- 15h00–15h15 S. BLOUNDI. "Problèmes des Collisions dans les Blockchaines à Deux Dimensions"
- 15h20–15h35 M. ZIYANI. "Detection and prevention of jailbreaking attacks in conversational artificial intelligence systems"
- 15h40–15h55 S. KOURTITE. "MECGDSA and Hash-MECDSA: Novel Multi-Curve Signature Schemes for Efficient and Secure Blockchain Applications"
- 16h00–16h15 M. BAHRAOUI. "Lightweight Anchor-Free Detection of UI Form Components for Real-Time Desktop RPA: A Domain-Specific Deep Learning Approach"
- 16h20–16h35 Z. SLIMANI. "A Bibliometric analysis of Artificial Intelligence and Machine Learning Applications in Chronic Diseases"

Coffee Break and Closing Ceremony