

International Conference on Algebra and Related Topics (ICART 2018)

## Scientific program of the session ACHTAG

<b>Tuesday 03-07-2018</b>	
	Chair : Driss Bennis Amphitheater : Ibn Sina
09h00 - 9h45	Mohamed Elhamdadi ; An algebraic approach to quandles*
09h50 - 10h35	Herbert Edelsbrunner ; Stochastic geometry with topological flavor*
10h40 - 11h10	Coffee break
	Chair : Maia Fraser Amphitheater : Ibn Sina
11h10 - 11h55	Ezra Miller ; Homological and geometric finiteness for real-exponent multigraded commutative algebra: persistence with continuous parameters*
	Chair : Maia Fraser Seminar room - Dept. of Mathematics
12h00 - 12h30	Andres Angel ; Malaria intensity in colombia by regions and populations
12h35 - 13h05	Michał Lipiński ; Persistent homology of morse decomposition in combinatorial dynamics
LUNCH	
	Chair : Kevin Knudson Seminar room - Dept. of Mathematics
14h40 - 15h25	Jacek Brodzki ; Topology and probability for data analysis
15h30 - 15h50	Hajar Bouazzaoui ; Bongard problems: what TDA can tell us
15h55 - 16h15	Armel Maganga Mihindou ; Homological persistence of neuronal structures exposed to cosmic radiation.
16h20 - 16h50	Coffee break
	Chair : Herbert Edelsbrunner Seminar room - Dept. of Mathematics
16h50 - 17h10	Ghita Lebbar ; Persistent homology as a new treatment of location problems in transport networks
17h15 - 17h35	Hajar Chawqi ; From images to barcodes
17h40 - 18h00	Youness Raki, A survey on deep learning approach for internet of things

\*Talk in common with the Sessions ACHTAG and HAMRC

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<b>Wednesday 04-07-2018</b>	
	Chair : Hinda Hamraoui Seminar room - Dept. of Mathematics
09h00 - 9h45	Maia Fraser ; The application of persistence modules to non-squeezing in symplectic and contact geometry
09h50 - 10h35	Kevin Knudson ; Discrete analogues of results in smooth morse theory
10h40 - 11h10	Coffee break
	Chair : Hellen Colman Seminar room - Dept. of Mathematics
11h10 - 11h30	Nicholas Scoville ; Strong discrete morse theory
11h35 - 11h55	Mateusz Przybylski ; Conley index approach to sampled dynamics
12h00 - 12h20	Yassir Rachdi ; Topological localization - applications
12h25 - 12h45	Khadija Azi ; Grothendieck topologies and applications

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## Scientific program of the session ACHTAG

Thursday 05-07-2018	
	Chair : Ezra Miller Seminar room - Dept. of Mathematics
09h00 - 9h45	Hellen Colman ; Equivariant motion planning
09h50 - 10h20	Shelley Kandola ; The topological complexity of the space of digital Jordan curves
10h25 - 11h05	Coffee break
	Chair : Nicholas Scoville Seminar room - Dept. of Mathematics
11h05 - 11h35	Ibrahim Lakrini ; On spherically symmetric metrics on vector bundles
11h40 - 12h10	Noura Amri ; Natural Ricci soliton structures on unit tangent sphere bundles
LUNCH	