

## EUROMATH & EUROSCIENCE 2018 PROGRAMME

**Wednesday, 7 March 2018**

Pedagogical University of Krakow, Poland

<b>All day</b>	<b>Arrivals</b>		
14.00 – 19.00	<p style="text-align: center;"><b>REGISTRATION</b> Pedagogical University of Krakow, Poland Address: ul. Podchorążych 2, 30-084 Kraków Room : 118</p>	<p style="text-align: center;"><b>Registration for Conference participants and Competition Finalists</b> MATHPoster Design Competition - Submission of printed poster designs</p>	
09:30 – 17:00	<p style="text-align: center;"><b>GAME &amp; SOCIAL</b> , room 216, available every day at certain hours Check the programme</p>	<p style="text-align: center;"><b>MATHEU and Le-MATH course</b> 7- 10 March, <b>ROOM 109</b> Separate daily programme is given to participants</p>	
19:00 – 20:00	<p style="text-align: center;"><b>EUROMATH Advisory Board Meeting</b> By invitation only Location: Novotel Hotel Lobby area</p>		

**Thursday, 8 March 2018**

Pedagogical University of Krakow, Poland

8.30 +	<p style="text-align: center;"><b>REGISTRATIONS (ROOM 118):</b>For Conference participants and competition finalists. <b>MATH &amp; SCIENCE Poster COMPETITION</b> Submission of printed design</p>			
<b>Place</b>	<b>Room 114</b>	<b>Room 119</b>	<b>Room 120</b>	<b>Room 121</b>
<b>Coordinators</b>	<b>G. Makrides, E. Gazis</b>	<b>M. Sajka, I. Krech</b>	<b>G. Malara, J. Kabat</b>	<b>R. Ratusiński, M. Skupień</b>
09:20 – 09:40	<p><b>WS1</b> <b>TECHNOLOGICAL ACHIEVEMENTS IN PARTICLE PHYSICS</b> Professor Evangelos Gazis, National Technical University of Athens, CERN</p>	<p><b>MATHEMATICS IN LIFE</b> Nikolay Malykh, Elizabeth Paula Kozlova, Bogdan Reshetnikov, Georgy Lisitsin, Alexandros Konstantinou, Pupils of Pythagoras School, Cyprus</p>	<p><b>BLOCKCHAIN: WHEN MATHS BECOMES THE FUTURE OF MONEY</b> Arina Ghanizadegan, The Grammar School, Nicosia, Cyprus</p>	<p><b>A PICO-SATELLITE EMBEDDED IN A SODA CAN FOR ATMOSPHERIC MONITORING AND TELEMETRY TRANSMISSION</b> E. M. Buga, W. N. Derscanu, M. Nechifor, S. I. Tanase, Alexandru Cel Bun” College, Gura Humorulu, Romania C. Turtorean, M. E. Zagan, D. Tanase, Spiru Haret” Computer Science National College, Romania</p>
09:40 – 10:00		<p><b>MATHEMATICS IN COMPUTING</b> Dmitry Grebenin, Pupils of Pythagoras School, Cyprus</p>	<p><b>MATHEMATICS AND PHILOSOPHY: WHAT IS A LIMIT?</b> Giuseppe Calio, Giorgia Corrado, Liceo Scientifico “Luigi Siciliani” Catanzaro_Italy</p>	<p><b>THE FUTURE OF GENE EDITING</b> Marinos Eliades, Marika Stephanou, Ekaterina Ignashova, The Heritage Private School, Limassol, Cyprus</p>

## EUROMATH & EUROSCIENCE 2018 PROGRAMME

Thursday, 8 March 2018				
Pedagogical University of Krakow, Poland				
Place	Room 114	Room 119	Room 120	Room 121
Coordinators	T. Amon, J. Szpond	M. Sajka, I. Krech	G. Malara, J. Kabat	R. Ratusiński, M. Skupień
10:00 – 10:20	<b>WS1</b> <b>TECHNOLOGICAL ACHIEVEMENTS IN PARTICLE PHYSICS</b>	<b>MATHS IN VIDEO GAMES</b> Fran Filipovic, OS braca Radic Koprivnica, Croatia	<b>EVERYTHING ABOUT NOTHING</b> Herman Wigge, Simon Ljungbeck, Polhemskolan, Lund, Sweden	<b>CARTOONS IN PHYSICSLAND</b> Maria Kaltaveridou, Daria Kovanova, Diastaseis Private School, Greece
10:20 – 10:40	<b>WS2</b> <b>USE OF VIRTUAL REALITY IN MAKING MATHEMATICS REAL AND PHYSICAL</b> Professor Tomaz Amon, President, Center for Scientific Visualization A biologist producing educational virtual reality software	<b>MATHEMATICS IN FOOTBALL</b> Niko Sertic, OS braca Radic Koprivnica, Croatia	<b>“AND YET IT MOVES”... AND SOMETIMES IT TREMBLES</b> Francesco A. Colosimo, Manlio de Pasquale, Pasquale Scalise, Liceo Scientifico “Luigi Siciliani” Catanzaro, Italy	<b>EVOLUTION OF SPECIES AND ENTROPY</b> Thanasis Bakalis, Stelios Samaras, Sofia Bakali, Christodoulos Karapatakis, Diastaseis Private School, Greece
10:40 – 11:00		<b>SHOPPING MATHEMATICS</b> Ida Rupcic, Tara Sambar, OS braca Radic Koprivnica, Croatia	<b>MATHS VERSUS CRIME</b> Nikolas Loizou, Marisa Loizidou, Eleonora Kekkou, The Grammar School, Nicosia, Cyprus	<b>PERFORMANCE OF PHOTOVOLTAIC CELLS</b> Shirel Haibi, Adam Zakheos, Styliana Charalambous, Hadjer Nihat, Desley Gombault, Ellada Mandriti, Souzianna Kiteou, Mediterranean Schools, Cyprus
11:00 - 11:20	<b>MATH &amp; SCIENCE BREAK</b>			
11:20 – 11:40	<b>WS4</b> <b>ARE LINES STRAIGHT (FORWARD)?</b> Justyna Szpond, Pedagogical University of Cracow, Poland	<b>MATHEMATICS IN JOURNALISM</b> Ena Omrcen-Ceko, OS braca Radic Koprivnica, Croatia	<b>THE SECRET OF RANKING</b> Elena Syllouri, Ourania Papakyriakou, Yuxuan Gu, Marina Artemiou, The Grammar School, Nicosia, Cyprus	<b>WIND ENERGY</b> Sofia Savvides, Christos Pantazis, Lucas Giasoumi, Tasnim Derawi, William Preston, Niki Theodoulou, Mediterranean Schools, Cyprus
11:40 – 12:00		<b>MATHEMATICS IN GAMBLING</b> Patricija Mihoci, OS braca Radic Koprivnica, Croatia	<b>ANALYSES OF NONOGRAMS</b> Ivan Ventsislavov Georgiev, Sofia Mathematics High School, Bulgaria	<b>MATH IN COMPUTER VISION AND MOMOVEMENT</b> Neven Lukic, Gimnazija “Fran Galovic” Koprivnica, Croatia

## EUROMATH & EUROSCIENCE 2018 PROGRAMME

<b>Thursday, 8 March 2018</b> <b>Pedagogical University of Krakow, Poland</b>				
Place	Room 114	Room 119	Room 120	Room 121
<b>Coordinators</b>	<b>A. Savvides, T. Szemberg</b>	<b>M. Sajka, I. Krech</b>	<b>G. Malara, J. Kabat</b>	<b>R. Ratusiński, M. Skupień</b>
12:00 – 12:20	<b>W55</b> <b>GEOMETRY OF A FINITE SET OF POINTS</b> Tomasz Szemberg, Pedagogical University of Cracow, Poland	<b>BIOMATHS</b> Ritirato Chiara, Antonio Spina, Zerillo Alessandro, Liceo Scientifico G. Rummo, Benevento, Italy	<b>RUBIK'S CUBE</b> Patrik Aleksic, Patricia Baros, Bozena Markovic, Natali Marinkovic, Prva Rijecka Hrvatska Gimnazija, Croatia	<b>RAINS ON OTHER PLANETS</b> Sara Svegovic, Mihaela Matijevic, Gimnazija "Fran Galovic" Koprivnica, Croatia
12:20 – 12:40		<b>WITH MATHEMATICAL EYE</b> Boffa Anna, D'Aronzo Elvira, Iannella Miriam, Sabbatini Andrea, Spina Antonio, Liceo Scientifico G. Rummo, Benevento, Italy	<b>MATHS OR LUCK?</b> Alexandra Anastassiadou, Andreas Lordos, Andreas Yiakoumis, Christos Antoniou, Petros Vassiliades, The English School of Nicosia, Cyprus	<b>THE GYROSCOPE</b> Adonis Mikeou, The G C School of Careers, Nicosia, Cyprus
12:40 – 13:00		<b>MUSIC AND MATHS: HATE OR LOVE?</b> Formisano Anna, Ritirato Chiara, Zerillo Alessandro, Liceo Scientifico G. Rummo, Benevento, Italy	<b>SZEMEREDI'S REGULARITY LEMMA AND EXPANDER GRAPHS</b> Kaloyan Todorov Fachikov, Sofia Mathematics High School, Bulgaria	<b>REVERSE CONVECTION</b> Sana Sasani, Nemooneh Meraj School Zanjan, Iran
13:00 – 14:30	<b>Lunch Break, Place: Area between Aula and Auditorium Danka</b> Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration			

# EUROMATH & EUROSCIENCE 2018 PROGRAMME

Thursday, 8 March 2018				
Pedagogical University of Krakow, Poland				
Place	Room 114	Room 119	Room 120	Room 121
Coordinators	<b>A. Savvides, A. Solea</b>	<b>G. Malara, J. Chmieliński</b>	<b>P. Pokora, M. L- Baczyńska</b>	<b>M. Sajka, M. Z- Fashami</b>
14:40 – 15:00	<b>WS3</b> <b>TRAIN YOUR BRAIN</b> Anastasia Solea, Pupils of Pythagoras School, Cyprus	<b>TASTING MATHEMATICALLY</b> Adamo Giulia, Chietti Francesco, Panella Valeria, Savinelli Vincenzo, Simeone Francesca, Zeoli Domenico, Liceo Scientifico G. Rummo, Benevento, Italy	<b>VISUALISING MATH</b> Andreas Hadjikallis, American Academy Larnaca, Cyprus	<b>CONQUERING GRAVITY</b> Polina Abrosimova, Margarita Mordvina, Nikita Ivanov, International School of Moscow, Russia
15:00 – 15:20		<b>MATHEMATICS IN CIVIL ENGINEERING</b> Nikola Kusek, OS Braca Radic Koprivnica, Croatia	<b>FRACTAL STRUCTURE OF DNA</b> Pavlovic Marija, Jurisic Milica, Mirjana Jovanovic, "Isidora Sekulic" Grammar School, Serbia	<b>FUTURISTIC HUMAN VISION WITH LENSES</b> Tsempis Konstantinos, Diastaseis Private School, Greece
15:20 – 15:40		<b>APPLICATION OF MATHEMATICS IN HOLIDAYS</b> Josip Mikulic, OS Braca Radic Koprivnica, Croatia	<b>THE CONFLICT BETWEEN INHERITANCE AND MATHEMATICS</b> Chara Toumba, American Academy Larnaca, Cyprus	<b>A TRIP ACROSS THE SOLAR SYSTEM</b> Sofronis Michael, Anastasia Constantinou, Antria Nicolaou, The English School of Nicosia, Cyprus
16:00 – 17:15	<b>Opening Ceremony</b> <b>EUROMATH and EUROSCIENCE Conference,</b> Room: Aula			
17:15 – 18:00	<b>RECEPTION OFFERED BY THE PEDAGOGICAL UNIVERSITY OF KRAKOW</b> Place: Between Aula and Auditorium Danka			
	<b>COMPETITION REHEARSALS</b>			
Coordinator	<b>C. Papagiannis, L. Makrides</b>			
18:00 – 20:00	(Reserve your wish for using the stage for rehearsal for the competitions below by sending an email to <a href="mailto:programme@eracon.eu">programme@eracon.eu</a> (indicate name and competition) <b>MATH and SCIENCE Theatre Europe Competition – Rehearsals (Room Aula)</b> <b>MATHFactor Europe Competition – Rehearsals (Room Auditorium Danka)</b> <b>SCIENCE-Factor Europe Competition - Rehearsals (Room Auditorium Danka)</b> Reserve your time slot, approximately 3 min per Factor, between 5-12 min per Theatre			

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Friday, 9 March 2018				
Pedagogical University of Krakow, Poland				
REGISTRATIONS (ROOM 118): For Conference participants and competition finalists				
Place	Room 114	Room 119	Room 120	Room 121
Coordinators	R. Schneidt, A. Alfieri	G. Malara, B. Rozek	B. Pieronkiewicz, E. Urbańska	B. Hejmej, M. Z-Fashami
09:00 – 09:20	<b>WS6</b> <b>MATHEMATICS AND CREATIVITY: AN APPROACH USING DIGITAL STORYTELLING</b>	<b>IS MATHS REAL?</b> Alexandros Violetti, The Grammar School, Nicosia, Cyprus	<b>ORDER IN CHAOS – PEACE IN DISCORD – ASSURANCE IN PROBABILITY</b> Antreas Haperis, Nikolas Fournaris, American Academy Larnaca, Cyprus	<b>A QUANTUM BRAIN?</b> Apostolou H., Dimitrakopoulou A., Dimitrakopoulou M., Gennaraki G., Minaretzi F., Mpakella A., Karalekas I., Koumpi O., Koudigkeli G., Safarika E., Sapounaki I., Syrigou K., Pierce - The American College of Greece, Greece
09:20 – 09:40	Anna Alfieri, Liceo Scientifico “Luigi Siciliani” Catanzaro, Italy	<b>THE MONTY HALL PARADOX</b> Karlo Andlovec, Maja Juric, Virna Nilovic, Prva rijecka hrvatska gimnazija, Rijeka, Croatia	<b>MATHEMATICS AND ART</b> Michalis Nicolaou, Sophia Tsokkou, American Academy Larnaca, Cyprus	<b>PASSPORT, PLEASE</b> Petar Vuckovic, Gymnasium, Kotor, Montenegro
09:40 – 10:00	<b>WS7</b>	<b>MATHEMATICS IN MAKING CLOTHES</b> Filip Baronic, Iva Betlehem, Osnovna Skola Fran Koncelak, Drnje, Croatia	<b>EXPLORING THE ANCIENT GREEKS’ MYSTIC AND TOPOGRAPHICAL SYMMETRIES</b> Thanasis Bakalis, Stelios Samaras, Sofia Bakali, Christodoulos Karapatakis, Diastaseis Private School, Greece	<b>ENLIGHTENING LIGHT: THE DOUBLE-SLIT EXPERIMENT</b> Safarika Eleftheria, Pierce - The American College of Greece, Greece
10:00 – 10:20	<b>THE MATH-GAMES METHODOLOGY: HOW TO LEARN THE BASICS OF MATHEMATICS BY PLANNING GAMES</b> Roland Schneidt, Volkshochschule Schrobenhaisen, Germany	<b>THE PRINGLES FUNCTION</b> Saga Anderholm Hansson, Linnea Olsson, Polhemskolan, Lund, Sweden	<b>MATHEMATICS AND MUSIC CAN EXPLAIN EVERYTHING</b> Soultana Fani Adamidou, Alexios Flamouropoulos, Diastaseis Private School, Greece	<b>STRUCTURE, PROPERTIES AND FUNCTION: THE QUEST FOR MATTER’S MINIMAL PARTS</b> Siotis Aris, Pierce - The American College of Greece, Greece
10:20 – 10:40		<b>MATHEMATICS AND PHOTOGRAPHY</b> Aleksandra Dziadosz, Polhemskolan, Lund, Sweden	<b>MATHEMATICS - POETRY: AN UNDOUBTEDLY CHARMING ENCOUNTER</b> Alexios Flamouropoulos, Soultana Fani Adamidou, Diastaseis Private School, Greece	<b>WAVES CAN SAVE THE WORLD</b> Nicola Votino, Dante Zollo, Francesco Piccolo, Francesco Tinessa, Fernando Ferraro, Federico Cotroneo, Liceo Scientifico G. Rummo, Benevento, Italy

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Friday, 9 March 2018				
Pedagogical University of Krakow, Poland				
Place	Room 114	Room 119	Room 120	Room 121
Coordinators	<b>S. Grozdev</b>	<b>G. Malara, B. Rozek</b>	<b>B. Pieronkiewicz, E. Urbańska</b>	<b>B. Hejmej, M. Z-Fashami</b>
10:40 – 11:00	<b>WS8</b> <b>ALGEBRAIC EQUATIONS WITHOUT DERIVATIVES</b> Sava Grozdev, VUZF University, Sofia	<b>MATH IN URBAN PLANNING AND CONSTRUCTION</b> Jakov Dolenc, Andrija Njers, Gimnazija "Fran Galovic" Koprivnica, Croatia	<b>CIRCLE</b> Pantelis Koshias, Elena Biparva, Anastasis Christoforou, American Academy Larnaca, Cyprus	<b>THE MAGIC OF COSMOGENY, A NEVER-ENDING QUEST</b> Georgiadis Doukas, Diastaseis Private School, Greece
11:00 – 11:20		<b>A DAY IN THE LIFE OF A DESTRUCTIVE PROJECTILE</b> Andria Athanasiadou, Anna-Maria Hadjigregoriou, Constantinos Ioannou, Polycarpus Yiorkadjis, The GC School of Careers, Nicosia, Cyprus	<b>WHY THE GOLDEN RATIO TAKES THE GOLD</b> Marianna Efstathiou, Anastasia Pipiou, Anastasia Stavrou, Antonietta Haliou, Nicholas Zacharia, Antonis Theodorou, American Academy Larnaca, Cyprus	<b>THE EIGHTH DAY</b> Alexander Symeonidis, Diastaseis Private School, Greece
11:20 – 11:40		<b>WHODUNNIT? MATHDUNNIT!</b> Anastasiadou Chara, Pavlou Kristina, Yamasaki Patrickiou Helena, The GC School of Careers, Nicosia, Cyprus	<b>COLORING SIERPINSKI TYPE CARPET</b> Radoslaw Peszkowski, Andrzej Szablewski, Jan III Sobieski High School in Krakow, Poland	<b>GAME THEORY AND THE COLD WAR</b> Paulina Acova, International School of Moscow, Russia
11:40 – 12:00	<b>MATH &amp; SCIENCE BREAK</b>			
12:00 – 12:20	<b>WS9</b> <b>INTRODUCTION TO THE INVARIANT CONCEPT</b> Sava Grozdev, VUZF University, Sofia	<b>WHAT MAKES MATH AWESOME?</b> Stjepan Delekovcan, Gimnazija "Fran Galovic" Koprivnica, Croatia	<b>POLYNOMIALS: FROM A ROUTINE EXERCISE TO A VAST GENERALIZATION</b> Pawel Jarosz, Oliwia Jarzęcka, Arkadiusz Ludzik, 7 LO im. Zofii Nalkowskiej w Krakowie, Poland	<b>IT'S COMING</b> Petar Vuckovic, Gymnasium, Kotor, Montenegro
12:20 – 12:40		<b>MATHEMATICS AND BALLET</b> Brenda Yuritzi Martinez Contla, Honorable Secondary School number 1, Mexico	<b>HOW MATHEMATICS WON WORLD WAR II</b> Sergei Novikov, Mariia Goncharova, Ekaterina Lazebnik, The Heritage Private School, Limassol, Cyprus	<b>THE RELATIONSHIP OF MATHEMATICS AND MUSIC</b> Alireza Mousavi, Alireza Mohammadi, Shahid Besheshti, Zanjan, Iran
12:40 – 13:00		<b>ON PERFECT NUMBERS</b> Martin Lofstrom, Polhemskolan, Lund, Sweden	<b>BAYES' THEOREM</b> Nicolas Georgiades, Charalampos Zacharia, The English School of Nicosia, Cyprus	<b>MATHEMATICS AND MUSIC</b> Mahyar Jafari Nodeh, Mohammad Reza Daviran, Shahid Beheshti Exceptional Talents, Iran

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Pedagogical University of Krakow, Poland				
Lunch Break, Place: Area between Aula and Auditorium Danka				
Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration				
Place	Room 114	Room 119	Room 120	Room 121
13:00 – 14:15				
Coordinators	<b>A. Gerovasileiou, K. Gryszka</b>	<b>M. L- Baczyńska, S. Tyliba</b>	<b>K. Roś, A. Dyba</b>	<b>H. T- Gasińska, K. Job</b>
14.20 – 14.40	<b>WS12</b> <b>THE MATHEMATICS CUISINE</b> Gerovasileiou Antonia, Dimitropoulos Emmanouil, Kopaila Iliana, Diastaseis Private School, Greece	<b>IT ALL STARTED WITH A BET</b> Zorpas Stephanos, The G C School of Careers, Nicosia, Cyprus	<b>SOLVING FERMAT EQUATION IN 2x2 MATRICES</b> Antoni Dera, Kajetan Grzybacz, Alicja Madeyska, 7 LO im. Zofii Nalkowskiej w Krakowie, Poland	<b>CRYPTOGRAPHY</b> Negar Maleki, Farzanegan 1, Iran
14:40 – 15:00		<b>SEQUENCE RESULTING AS SOLUTION OF TWO COMBINATORIAL PROBLEMS</b> Russu Vladimir, Theoretical lyceum A. Puskin, Chisinau, Republic of Moldova	<b>PRIMALITY TESTING AND CARMICHAEL NUMBERS</b> Martin Boyanov Stefanov, Sofia High School of Mathematics, Bulgaria	<b>IMMEDIATE THIRD ROOTS</b> Arnica Kiani, Sevin Vosughi, Meeraj andisheh school, Iran
15:00 – 15:20		<b>A CIRCLE ROTATES TOWARDS EXCITING MATHEMATICS</b> Galati Lina, Pachni Ioanna, Perroti Loukia, Pimbli Natalia, Tzanetou Elena, The Moraitis School, Greece	<b>MATHEMATICAL FALLACIES</b> Georgia Tzyrka, Savvas-Odysseas Makariou, Vasiliki Kalimera, Christia Kai, The English School of Nicosia, Cyprus	<b>THE ROLE OF MATHEMATICS IN MEDICINE</b> Shakila Hamdy, Farzaneghan 1, Iran
15:20 – 15:40	<b>WS15</b> <b>LEARNING MATHEMATICS WITH RUBIK'S CUBE</b> Karol Gryszka, Pedagogical University of Cracow, Poland	<b>ELLIPSE: AN INCREDIBLE, YET OFTEN OVERLOOKED CURVE</b> Georgiou Stavroula, Nikolarea Nikolina, Mamais John, The Moraitis School, Greece	<b>WONDERWOMEN</b> Lilikaki Marianna, Mavragani Christina, Safarika Eleftheria, Zein Christina, Pierce - The American College of Greece, Greece	<b>PHILOSOPHY AND MATHEMATICS</b> Mohammad Ali Bigdeli, Mohammad Amin Jafari, Bright Student Shahid Beheshti School, Iran
15:40 – 16:00		<b>P VERSUS NP</b> Antonis Bourtzinacos, Dimitra Iosifidou, Stefanos Kantaros, Ioanna Kolyva, Pantelis Mexas, Panagiota Mouteveli, Elena Tziveleki, Georgia Okka, Loukia Pragmateftaki, Dimitris Proios, Evgenia Skagkou, Giorgos Sgourakis, Zanneio Experimental Lyceum of Piraeus, Greece	<b>GOLDEN RATIO</b> Barla Anastasia, Barla Dimitra, Theofani Ioanna - Myrto, Theofani Maro - Athina, Pierce - The American College of Greece, Greece	<b>SIMPLE MATHEMATICAL MODELS IN MUSIC</b> Nika Pishkari, Farzanegan 1, Iran
16:00 – 16:20				

# EUROMATH & EUROSCIENCE 2018 PROGRAMME

**Friday, 9 March 2018**  
Pedagogical University of Krakow, Poland

	MATH & SCIENCE Poster Design Competition ends.
Place	Room: Auditorium Danka
Coordinator	C. Papagiannis, L. Makrides

16:00 – 18:30		<p><b>MATHFactor and SCIENCEFactor Europe 2018 Competitions – Finals</b> Open to the public</p>
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Finalists MATHFactor Europe 2018			Finalists SCIENCEFactor Europe 2018
<p>MFL1 Football mathematics MFL2 Mathematics in musical notation MFL3 Mathematics and scouts MFL4 Making geometric shapes MFL5 Japanese multiplying MFL6 Women in maths MFL7 Mathematics in flags MFL8 Probability MFL9 French Croissant MFL10 The Beauty of the Binary System</p>	<p>MFU1 The paradox of food MFU2 Sign math circuit MFU3 The secrets in Pascal's triangle MFU4 Mathematics and time MFU5 It's coming MFU6 Our Jewel - Feynman MFU7 Erdos number</p>	<p>MFU8 Angles in a triangle MFU9 The Mathematics of the sphere goddess MFU10 Irrational Numbers MFU11 Is there common sence? MFU12 lost identity MFU13 The unknown X MFU14 The monologue of the circle MFU15 For Every Era</p>	<p>SF1 Save, don't waste SF2 How big is infinity SF3 Einstein's Quantum Nightmare SF4 How food cravings work SF5 Passport, Please SF6 The little spermy's journey SF7 What is the blockchain and how does it work? SF8 Metric system SF9 Think SF10 Star insulin SF11 I can break everything coz I know Physics</p>

**20:30 – 01:00**  
**Dinner Dance “Mathematics and Science by Night”,**  
**Place: Stara Zajezdnia Krakow by DeSilva**  
**Ul. Sw. Wawrzynca 12, 31-060 Krakow**




## EUROMATH & EUROSCIENCE 2018 PROGRAMME

Saturday, 10 March 2018				
Pedagogical University of Krakow, Poland				
Place	Room 114	Room 119	Room 120	Room 121
Coordinators	A. Savvides	B. Pieronkiewicz, M. Z-Fashami	M. L- Baczyńska, M. Sajka	B. Ligas, M. Zembal
10:00 – 10:20	<b>WS13</b> <b>MATHEMATICS THROUGH GAMES</b> Mara Grasic, Osnovna Skola, Braca Radic“, Koprivnica, Croatia Ksenija Varovic, Osnovna Skola Fran Koncelak, Drnje, Croatia	<b>THE MATHEMATICAL WAY OF WINNING AT MONOPOLY</b> Joel Anicic, Prva Rijecka Hrvatska Gimnazija, Rijeka, Croatia		<b>NEWTON VS EINSTEIN</b> Christodoulou Maria, Fousteri Grigoria, Hadjopoulou Tatiani –Rita, Mania Christina-Ioanna, Petraki Maria, Rova Athena, Sotiriou Alexandra, Nea Genia Ziridis School, Greece
10:20 – 10:40		<b>MATHS AND AUTISM</b> Alevrogianni Despoina, Karali Anastasia, Mavropoulou Natalia, Papadede Anna-Maria, Skoura Noni, Nea Genia Ziridis School, Greece	<b>MATHEMATICS IN COMPUTER GAMES</b> Mayya Mukhina, International School of Moscow, Russia	<b>THE NOISE OF SOUND</b> Andrianopoulos Odysseas, Barakos Nikolas, Daskalothanasi Lydia, Kansou Angeliki, Mixalopoulou Elisavet, Nea Genia Ziridis School, Greece
10:40 – 11:00		<b>DIDO AND HER PROBLEMS</b> Giannopoulou Sofia, Grigoriou Katerina, RapthsAggelos, Taraboulous Zak, Nea Genia Ziridis School, Greece	<b>MATHEMATICS IN MUSIC, POSSIBLE OR IMPOSSIBLE?</b> Octavio Tristan Penaloza Sanchez, Rosario Castellanos, Mexico	<b>A HAND FOR EVERYONE</b> Francesco Brescia, Francesco Scerbo, Liceo Scientifico “Luigi Siciliani”, Catanzaro, Italy
11:00 – 11:20	<b>WS14</b> <b>AN INTRODUCTION TO THE FINITE STATE AUTOMATA</b> Vasilis Stavropoulos, Dr Kostis Andriopoulos, The Moraitis School, Athens, Greece	<b>FIGURE-ING A PUNCH</b> Aggelos Raptis, Lydia Nikiforiadi, Sofia Kotzamani, Malamatenia Karagianni, Anna-Maria Papadede, Nea Genia Ziridis School, Greece	<b>PASCAL’S TRIANGLE</b> Ivan Ventsislavov Georgiev, Martin Boyanov Stefanov, Sofia High School of Mathematics, Bulgaria	<b>THE MAGIC OF COLOURS: BEHIND "CHROMADEPTH" 3D VISION</b> Annarita Battaglia, Marzia Gidaro, Giulia Perri, Ada Polizzi, Francesca Torchia, Francesco Scerbo, Liceo Scientifico “Luigi Siciliani”, Catanzaro, Italy
11:20 – 11:40		<b>PLACE YOUR BETS</b> Christodoulou Maria, Fousteri Grigoria, Hadjopoulou Tatiani –Rita, Mania Christina-Ioanna, Petraki Maria, Rova Athena, Sotiriou Alexandra, Nea Genia Ziridis School, Greece	<b>AREA OR PERIMETER OF CIRCLE WITHOUT PI</b> Daniel Jovanovski, Zoran Acevski, Filip Kostadinovski, Boban Blazevski, Yahya Kemal College, FYR Macedonia	<b>PHYSICS IN EARTHQUAKE SAFETY</b> Luca Vito Iuliano, Fabio Loprete, Gianmarco Nicoletta, Mariateresa Sanseviero, Vincenzo Italia, Concettina Gaccetta, Liceo Scientifico “Luigi Siciliani”, Catanzaro, Italy

## EUROMATH & EUROSCIENCE 2018 PROGRAMME

Saturday, 10 March 2018				
Pedagogical University of Krakow, Poland				
Place	Room 114	Room 119	Room 120	Room 121
<b>Coordinators</b>	<b>S. Grozdev</b>	<b>B. Pieronkiewicz, M. Z-Fashami</b>	<b>M. L- Baczyńska, M. Sajka</b>	<b>B. Ligas, M. Zembal</b>
11.40 – 12.00	<b>WS14</b> <b>AN INTRODUCTION TO THE FINITE STATE AUTOMATA</b>	<b>PARADOXES AND HUMAN LOGIC</b> Pantazopoulos Nikos, Kontostoli Anastasia, Alexandri Lydia, Sideris Stefanos, Nea Genia Ziridis School, Greece	<b>SHADING VENN DIAGRAM WITH GRAPH</b> Jusuf Xheladini, Amar Ademi, Yahya Kemal College, FYR Macedonia	<b>INVESTIGATING THE EFFECTS OF E.M. PROBIOTICS</b> Conn Caomhan Muir, Con O Meachair, Brownswood, Enniscorthy, Co. Wexford Ireland
12.00 – 12:20	<b>WS10</b> <b>TELESCOPING SUMS</b> Sava Grozdev, VUZF University, Sofia	<b>WS11</b> <b>MATHEMATICS IN THEATRE: QUAD AND CONSUMING SPACE (SAMUEL BECKETT'S QUAD PLAY AND GRAPH THEORY)</b> Ozan Evkaya, Atılım University, Ankara, Turkey Gizem Gurer, Ankara University, Turkey	<b>P67 MAGICAL SQUARE</b> Ailin Mirzaee, Roshd school, Zanjan, Iran	<b>DATA COMPRESSION IN MUSIC INDUSTRY</b> Nima Rastgar, Amirhossein Ghorbani, 23rd Misagh St., Zanjan Ct, Iran
12:20 – 12:40		<b>WS11</b>	<b>IMPORTANCE OF MATHEMATICAL ECONOMICS</b> Alireza Mousavi, Alireza Mohammadi, Shahid Besheshti, Zanjan, Iran	<b>APPLICATION OF PURE MATHEMATICS IN ECONOMIC THEORIES</b> Alireza Mousavi, Alireza Mohammadi, Shahid Besheshti, Zanjan, Iran
12:40 – 14:00	<b>Lunch Break, Place: Area between Aula and Auditorium Danka</b> Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration			

## EUROMATH & EUROSCIENCE 2018 PROGRAMME

Saturday, 10 March 2018 Pedagogical University of Krakow, Poland			
Coordinator	C. Papagiannis, L. Makrides		
14.30 – 16.30	<p><b>MATH &amp; SCIENCE Theatre Europe 2018 Competition – Finals (AULA room) (Open to the public)</b></p> 		
	<b>Finalists</b>		
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <p>MST1 Helen Keller, Lebanon MST2 Mathematics Behind Formula, Romania MST3 Platonic solids, Bulgaria MST4 Mathfix, Poland MST5 The price of wisdom, Greece</p> </td> <td style="width: 50%; border: none; vertical-align: top;"> <p>MST6 Nikola Tesla - mind from the future, Croatia MST7 The Great Explosion ... Live, Greece MST8 Karate or ice skating.....Science it is, Greece MST9 Operations Relation' s, Cyprus MST10 To bee or not to bee, Greece</p> </td> </tr> </table>	<p>MST1 Helen Keller, Lebanon MST2 Mathematics Behind Formula, Romania MST3 Platonic solids, Bulgaria MST4 Mathfix, Poland MST5 The price of wisdom, Greece</p>	<p>MST6 Nikola Tesla - mind from the future, Croatia MST7 The Great Explosion ... Live, Greece MST8 Karate or ice skating.....Science it is, Greece MST9 Operations Relation' s, Cyprus MST10 To bee or not to bee, Greece</p>
<p>MST1 Helen Keller, Lebanon MST2 Mathematics Behind Formula, Romania MST3 Platonic solids, Bulgaria MST4 Mathfix, Poland MST5 The price of wisdom, Greece</p>	<p>MST6 Nikola Tesla - mind from the future, Croatia MST7 The Great Explosion ... Live, Greece MST8 Karate or ice skating.....Science it is, Greece MST9 Operations Relation' s, Cyprus MST10 To bee or not to bee, Greece</p>		
16:30 – 17.00	<b>COFFEE BREAK</b> waiting for results , Place: Aula corridor		
	<b>AWARDS CEREMONY (Room Aula)</b>		
Coordinator	C. Papagiannis, L. Makrides, A. Charalambous		
17.00 – 18.00	<p>Results of MATH &amp; SCIENCE Poster Design 2018 Competition Results of MATH &amp; SCIENCE Theatre Europe 2018 Results of MATHFactor Europe 2018 Results of SCIENCEFactor Europe 2018 Results of MATHPresentation 2018 Competition Results SCIENCEPresentation 2018 Competition</p>		
Sunday, 11 March 2018			
All day	Departures		