

The 16th International Conference on Geometry and Graphics  
Innsbruck, Austria, August 4–8 2014

Detailed Program

**Plenary Presentations**

**Plenary 1**

Tuesday, August 5, 2014, 9:30–10:15am

Room: Kaiser-Leopold Saal

Chair: E. Tsutsumi

T. Tachi

**Geometric Design of Rigid Origami and Curved Origami**

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**Plenary 2**

Wednesday, August 6, 2014, 8:45–9:30am

Room: Kaiser-Leopold Saal

Chair: P. Zsombor-Murray

R. Ziegler

**Geometrical Challenges in the Realization of Contemporary Architecture**

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**Plenary 3**

Thursday, August 7, 2014, 8:45–9:30am

Room: Kaiser-Leopold Saal

Chair: G. Weiß

D. Rutten

**Navigating Multi-Dimensional Landscapes in Foggy Weather as an Analogy for Generic Problem Solving**

## Session TU-1

Tuesday, August 05 2014, 10:50

TU-1-H1	Room: H1	TU-1-S6	Room: S6	TU-1-S7	Room: S7	TU-1-MS	Room: MS	TU-1-KL	Room: KL
Chair: K. Shiina 10:50–11:10 E. Tsutsumi*, T. Yamamoto, T. Hongo, H. Yano, and K. Suzuki <b>A Survey on the Spatial Abilities of Pre-University Students – On Scores of Mental Cutting Tests</b>	#123	Chair: B. Han 10:50–11:10 Ai Sakaki* and R. Koba <b>Analysis for Accessibility to the Convenient Facilities From the Residences</b>	#195	Chair: M. Kato 10:50–11:10 P. Rubinowicz <b>Exploring the Complexity. Digital Turn Towards Geometry in Contemporary Architecture and Urban Planning</b>	#189	Chair: D. Makuteniene 10:50–11:10 S. Gorjanc*, H. Halas, and E. Jurkin <b>Introducing 3D Modeling Into Geometry Education at Two Technical Faculties at the University of Zagreb</b>	#152	Chair: O. Röschel 10:50–11:10 V. Shelomovskii* and S. Nosulya <b>Modern Book on Geometry</b>	#093
11:15–11:35 D. Kusar* and M. Volgemut <b>Thirteen Years of MRT – Results, Options and Dilemmas</b>	#010	11:15–11:35 T. Konishi* and S. Kaneko <b>Navigation Functions of Pictorial Schematics During the Edo Period With Emphasis on Travel Maps</b>	#050	11:15–11:35 A. Kita* and Ai Sakaki <b>Street Crime Prevention Through Multidimensional Assessment of Community Design</b>	#148	11:15–11:35 M. Mori*, H. Tominaga, N. Iida, and K. Hirose <b>Image Processing Education in the Department of Information Engineering, College of Industrial Technology – Utilization of Spreadsheet Software and...</b>	#209	11:15–11:35 M. Barej*, S. Hoffmann, Ch. Knief, M. Trautz, and B. Corves <b>Design and Application Studies for a Cupola Forming Orbital Arrangement of Miura-Ori Basic Units</b>	#166
11:40–12:00 Th. Branoff and M. Dobelis* <b>Students' Ability to Model Parts From Various Types of Drawings and the Relationship to Other Measures in Engineering Graphics Courses</b>	#047	11:40–12:00 M. Shiraiishi*, A. Inoue, and M. Shinya <b>Visualization of Travel Time by Transportation Service With Concentric Circles</b>	#141	11:40–12:00 K. Czyńska <b>Geometrical Aspects of City Skyline – Tall Building Analysis</b>	#188	11:40–12:00 E. Kasatkina*, Y. Stepanov, and V. Kaurkin <b>Using Computer Technologies for Educational Process on Graphic Subjects at MPEI</b>	#207	11:40–12:00 K. Takahashi*, T. Tachi, and Y. Yamaguchi <b>An Approximation Method of Triangular Mesh Models for Generating Development Diagrams with Creases and Slits</b>	#120
12:05–12:25 A. Takahashi and H. Abe* <b>Evaluation of Spatial Ability by Using a Silhouette of Solid Figure in Graphic Science Education</b>	#063	—	—	—	—	12:05–12:25 A. Hast <b>How to Promote Student Creativity and Learning Using Tutorials in Teaching Graphics and Visualisation</b>	#205	12:05–12:25 B. Felbrich*, D. Lordick, J. Noennig, and S. Wiesenhütter <b>Experiments With a Folding Multi-Agent System in the Design of Triangle Mesh Structures</b>	#193

## Session TU-2

Tuesday, August 05 2014, 2:00

TU-2-H1	Room: H1	TU-2-S6	Room: S6	TU-2-S7	Room: S7	TU-2-MS	Room: MS	TU-2-KL	Room: KL
Chair: H. Suzuki 02:00–02:20 R. Migliari and L. Baglioni* <b>Application of the Cross-Ratio to the Analysis of Architecture</b>	#067	Chair: K. Suzuki 02:00–02:20 K. Shiina*, S. Arai, and T. Otsu <b>Error Analysis of Problems on Surface Area of an Object Presented in a Three-View Orthographic Drawing as a Part of Mathematics Test Form</b>	#118	Chair: B. Odehnal 02:00–02:20 A. Jia*, N. Wang, and P. Ruan <b>A Method Study of Rapidly Making Large-Scale Topographic Map</b>	#058	Chair: M. Šimić Horvath 02:00–02:20 N.-Ch. Fritsche <b>Real Life and Real Representation – Educating Along and Across the Boundaries of Geometry and Graphics</b>	#127	Chair: T. Tachi 02:00–02:20 A. Wiltsche* and M. Stavric* <b>Rigid Quadrilateral Folding Strategies for Surface Design in Architecture</b>	#043
02:25–02:45 M. Hemmerling and J. Böke* <b>SunSys – A Case Study on Geometric Complexity in Computational Design</b>	#146	02:25–02:45 D. Makuteniene <b>Multivariant Data in Complex Quiz Layout for Computer Engineering Graphics</b>	#156	02:25–02:45 L. Wang, J.-Y. Zhang*, W. Yang, and Q. Fan <b>Research of Applications on Synchronous Modeling Technology</b>	#037	02:25–02:45 Z. Ningrong* and X. Qinghua <b>Research and Practice of Engineering Design Training With a Tight Integration Between Design and Engineering Graphics</b>	#157	02:25–02:45 T. Kuhlmann* and D. Lordick <b>Iterative Form Finding for the Layout of Irregular Reciprocal Framework Structures</b>	#196
02:50–03:10 A. Mazzucchi <b>An Open Source Work Flow: A Digital Building Reconstruction and its Presentation</b>	#074	02:50–03:10 T. Ohtani* and K. Maruya <b>Using Optical Illusion Patterns Affixed to Toy Blocks for Learning Human Errors in Three-Dimensional Projection</b>	#051	02:50–03:10 T. Du*, Q.-q. Mao, and Q. Du <b>The Three-Dimensional Modeling and the Finite Element Analysis of the Involute Hyperbolic Arch Dam</b>	#124	02:50–03:10 B. Kotarska-Lewandowska <b>The Use of Photographs in the Teaching/Learning of Descriptive Geometry</b>	#182	02:50–03:10 P. Cutellic*, U. Frick, Th. Grabner, and R. Maleczek <b>Aggregation of Polyhedron Modules on a Freeform Surface</b>	#098
03:15–03:35 N. Pisacane <b>Imagined Space, Real Space. The Curtain of the Theatre and the Central Hall of the Royal Palace of Caserta</b>	#062	03:15–03:35 L. Guan*, H. Liu, C. Wang, and F. Guo <b>Research on the Test Sheet Organization for Engineering Graphics</b>	#201	03:15–03:35 R. Motegi*, Y. Kanematsu, T. Tsuchida, K. Mikami, and K. Kondo <b>Color Scheme Scrapbook Using a Character Color Palette Template</b>	#039	03:15–03:35 A. Cucakovic, N. Teofilovic, and B. Jovic* <b>Descriptive Geometry Education by Using Multimedia Tools</b>	#151	03:15–03:35 U. Basel <b>Global Properties of the Closed Relative Motion of Two Planes (in the Plane)</b>	#219

## Session TU-3

Tuesday, August 05 2014, 4:20

TU-3-H1	Room: H1	TU-3-S6	Room: S6	TU-3-S7	Room: S7	TU-3-MS	Room: MS	TU-3-KL	Room: KL
Chair: L. Cocchiarella		Chair: T. Du		Chair: D. Lordick		Chair: X. Luo		Chair: N. Wildberger	
04:20–04:40	#184	04:20–04:40	#018	04:20–04:40	#181	04:20–04:40	#009	04:20–04:40	#174
S. Chiarenza		Y. Ma*, Y. Fu, S. Li, G. Li, and L. Deng		V. Cardone and B. Messina*		A. Mollicone		S. Mick* and G. Weiß	
<b>Geometry and Graphic Design</b>		<b>The Development of Modeling Tools for Pin-by-Pin Precise Reactor Simulations</b>		<b>A New Condition of Perpendicularity in Isometrical Cavalier Projection</b>		<b>Logic (Systematic) Vs. Automation (Mechanisms)</b>		<b>Fibonacci Triangles and Circle Chains and a Golden Bi-Arc Spiral in Non-Euclidean Planes</b>	
04:45–05:05	#056	04:45–05:05	#089	04:45–05:05	#171	04:45–05:05	#117	04:45–05:05	#213
I. Kuznetsova		S. Enghardt*, J. Bauch, and F. Henschel		J. Correia, M. Costa*, A. Guerreiro, and L. Romão		I. Honma* and K. Kuwabara		Z. Kolar-Begović*, R. Kolar-Šuper, and V. Volenec	
<b>Use of Geometry at Creation or the Analysis of Design and Art Objects</b>		<b>On the Geometry of Pseudo-Kossel and Bremsstrahlung Interferences</b>		<b>Eyesight Cartographies – Unfolding the Visual Sphere</b>		<b>An Educational Trial on Drawing for True Shape by Using Auxiliary View Method Aided With CAD to the Students With Hearing Impairments</b>		<b>Geometry of ARH-Quasigroups</b>	
05:10–05:30	#179	05:10–05:30	#203	05:10–05:30	#019	05:10–05:30	#137	05:10–05:30	#013
G. Barczik		H. Jankowski* and L. Stanberry		A. Brailov		M. Ilić* and M. Stavrić		M. Katić Žlepalo	
<b>Intriguing Intersections and Useful Unfoldings</b>		<b>Visualising Variability: Confidence Regions in Level Set Estimation</b>		<b>The General Approach to the Solution of Typical Engineering Geometrical Problems</b>		<b>Developing Spatial Ability for Quality Engineering Education</b>		<b>Curves of Centres of Conic Pencils in Pseudo-Euclidean Plane</b>	
—		05:35–05:55	#082	05:35–05:55	#106	05:35–05:55	#001	05:35–05:55	#147
		W. Liu, C. Kong, Q. Niu, and X. Zhou*		J. Dzwierzynska		M. Pfurner, J. Schadlbauer*, and H.-P. Schröcker		S. Vidak	
		<b>An Effectual Offset Algorithm for 3D Curve in Engineering Application</b>		<b>The Representation on the Cylindrical Rotary Surface – Inverse Panorama</b>		<b>A Recyclable Möbius Strip</b>		<b>Existence and Uniqueness of Centers of Regular Polygons in Some Subclasses of IM-Quasigroups</b>	

## Session WE-1

Wednesday, August 06 2014, 10:15

WE-1-H1	Room: H1	WE-1-S6	Room: S6	WE-1-S7	Room: S7	WE-1-MS	Room: MS	WE-1-KL	Room: KL
Chair: K. Mende		Chair: E. Molnár		Chair: G. Glaeser		Chair: M. Hoffmann		Chair: C. Leopold	
10:15–10:35	#006	10:15–10:35	#024	10:15–10:35	#004	10:15–10:35	#212	10:15–10:35	#112
G. Amoruso, A. Sdegno*, and S. Masserano		D. Velichová		A. Tan*, F. Croft Jr., and F. Tan		B. Blaschitz		B. Han*, Y. He*, B. Tong, X. Luo, and J. Yang	
<b>Perspectival Geometries in the Sacred Mount of Ossuccio</b>		<b>Classification of Manifolds Resulting as Minkowski Operation Products of Basic Geometric Point Sets</b>		<b>Simulating the Construction Process of the Roman Colosseum Using Digital Graphics</b>		<b>Geometric Optimization in Minkowski Space</b>		<b>The Research on Graph, Graphics and Graphics Science</b>	
10:40–11:00	#167	10:40–11:00	#077	10:40–11:00	#114	10:40–11:00	#096	10:40–11:00	#033
R. Migliari and J. Romor*		A. Dvoretzky and T. Denysova		L. Cipriani and F. Fantini*		Ž. Milin-Šipuš* and L. Primorac Gajčić		M. Kato	
<b>Perspective: Theories and Experiments on the “Veduta Vincolata” (Restricted Sight)</b>		<b>Caustic Surface and Quasifocal Line</b>		<b>The Geometry Behind the Octagonal Hall of Small Thermal Baths at Hadrian’s Villa</b>		<b>Ruled Surfaces of Constant Slope in 3-Minkowski Space</b>		<b>Coexistence of Geometry and Geology – Reconsidering Le Corbusier</b>	
11:05–11:25	#071	11:05–11:25	#023	11:05–11:25	#026	11:05–11:25	#008	11:05–11:25	#078
R. Migliari, F. Fallavollita*, and M. Salvatore		S. Gorjanc and E. Jurkin*		S. Hao*, A. Tan, F. Tan, and F. Croft Jr.		G. Weiß* and V. De Spinadel		G. Caglioti and L. Cocchiarella*	
<b>The Monge Three Point Space Resection Problem</b>		<b>On the Special Surfaces Through the Absolute Conic With a Singular Point of the Highest Order</b>		<b>Simulating the Construction of China’s Song-Style Dougong Using Digital Graphics</b>		<b>Bi-Arc Spirals in Minkowski Planes</b>		<b>A Eulogy of Ambiguity: Between Visual Perception and Quantum Mechanics</b>	
11:30–11:50	#206	11:30–11:50	#095	11:30–11:50	#169	11:30–11:50	#035	11:30–11:50	#102
G. Mele*, G. Buratti, and F. Rovo		L. Pletenac* and Ž. Milin-Šipuš		D. Ciminieri*, R. Ménard, G. Meunier, and P. Ciuccarelli		E. Shonoda and G. Weiß*		P. Sripian* and Y. Yamaguchi	
<b>Theory and Practice in the Implementation of Illusionistic Ceiling Painting at Palazzo Moroni in Bergamo Italy</b>		<b>Translation Surfaces and Applications</b>		<b>Energetical Streams Visualization Using Interactive Sankey Diagrams</b>		<b>Brauner’s Angle Formula and the Theory of Curves in Minkowski Planes and Spaces</b>		<b>Assessment Method for an Edge Alignment Free Hybrid Image</b>	

## Session WE-2

Wednesday, August 06 2014, 2:00

WE-2-H1	Room: H1	WE-2-S6	Room: S6	WE-2-S7	Room: S7	WE-2-MS	Room: MS	WE-2-KL	Room: KL
Chair: S. Mick		Chair: A. Dvoretzky		Chair: M. Husty		Chair: N. Kaygorodtseva		Chair: Ž. Milin-Šipuš	
02:00–02:20	#073	02:00–02:20	#046	02:00–02:20	#036	02:00–02:20	#086	02:00–02:20	#075
A. Alkhalidi and N. Wildberger*		K. Panchuk* and A. Niteyskiy		K. Wada* and H. Abe		G. Valencia García		C. Leopold	
<b>The Parabola in Universal Hyperbolic Geometry II: Canonical Points and The Y-Conic</b>		<b>Contact of the Ruled Nondevelopable Surfaces</b>		<b>A Study on Morphological Interpretation of the Façade Design and Form Design in Architecture</b>		<b>A New Focus for Teaching and Learning With Descriptive Geometry's Tutorials Through the Web</b>		<b>Perspective Concepts. Exploring Seeing and Representation of Space</b>	
02:25–02:45	#038	02:25–02:45	#076	02:25–02:45	#129	02:25–02:45	#005	02:25–02:45	#025
H. Halas*, N. Kovačević, and A. Sliepčević		B. Odehnal		A. Kulig		G. Maresch		A. Tan*, F. Tan, and F. Croft Jr.	
<b>Line Inversion in the Quasi-Hyperbolic Plane</b>		<b>Curvature Functions on a One-Sheeted Hyperboloid</b>		<b>Geometry of Gothic Vaults Based on Historical Sources</b>		<b>The Educational Research Project GeodiKon: Pointing Accuracy, Strategies and Gender-Specific Effects</b>		<b>Historical Perspectives of Perspective</b>	
02:50–03:10	#065	02:50–03:10	#049	02:50–03:10	#187	02:50–03:10	#069	02:50–03:10	#053
A. Sliepčević and I. Božić*		D. Dunham		S. Bertacchi		R. Kiss-György		D. Calisi	
<b>The Analogue of Theorems Related To Wallace-Simson's Line in Quasi-Hyperbolic Plane</b>		<b>Patterns on Triply Periodic Polyhedra</b>		<b>Brunelleschi's Dome: An Overview Through 3D Digital Model About Geometrical Genesis and Proportional Theories</b>		<b>Space Description Problems in the Secondary School (Their Possible Causes and Problem Solving)</b>		<b>The Curved Horizon by Leonardo: Towards a New Perspective</b>	
03:15–03:35	#003	03:15–03:35	#060	03:15–03:35	#107	03:15–03:35	#175	03:15–03:35	#028
D. Klawitter		J. Katona, E. Molnár*, I. Prok, and J. Szirmai		S. Mišić, M. Obradović*, and G. Đukanović		E. Marchetti and L. Rossi-Costa*		L. Cocchiarella	
<b>Null Polarities as Generators of the Projective Group</b>		<b>Visualization With Visibility of Higher Dimensional and Non-Euclidean Geometries</b>		<b>Composite Concave Cupolae as Geometric and Architectural Forms</b>		<b>Learn by Eating – An Easy Way to Approach Geometrical and Mathematical Aspects</b>		<b>Perspective Between Fiction and Function: Pattern Mutations Through Science and Art</b>	

## Session Poster Session (2nd floor)

Wednesday, August 06 2014, 4:20–6:00

04:20–06:00 #218

V. Shelomovskii

**Application DGS GI<sub>n</sub>MA in geometry science and education**

04:20–06:00 #121

G. Đukanović, Đ. Đorđević, M. Obradović, S. Mišić

**Application of Curves and Surfaces of Higher Orders Obtained by Inversion in the Practice of Architecture**

04:20–06:00 #136

M. Zawadzki\*, T. Nagakura

**Arm-Z: A Modular Virtual Manipulator**

04:20–06:00 #185

A. Zwoliński

**Complexity of Public Spaces System Between Key Tall Buildings in City of Szczecin. Geometrical Aspect of Public Spaces in 3D City Model**

04:20–06:00 #020

H. Ebisui

**Ebisui-Simson Theorem**

04:20–06:00 #149

T. Matsumoto\*, K. Yasufuku, H. Abe

**Evaluation of Passing Performance of Self-Driven Particle Through Building**

04:20–06:00 #045

D. Korchagin, K. Panchuk\*

**Forming of the Spline Similar Linear Strip**

04:20–06:00 #104

A. Lyashkov\*, V. Volkov

**The Geometric and Computer Modeling Shaping Technical Surfaces**

04:20–06:00 #140

O. Gumen, V. Mileikovskiy\*

**The Geometrical Approach to Calculation of Boundary Layer Between Flows**

04:20–06:00 #217

B. Jovic

**Geometry Education at the University of Belgrade**

04:20–06:00 #092

J. Beban-Brkić, M. Šimić Horvath\*

**Interaction Among Courses**

04:20–06:00 #122

E. Rosales, L. Falcón-Morales

**A New Triangle Theorem to Solve the Inverse Kinematics Problem for Characters With Highly Articulated Limbs**

04:20–06:00 #021

H. Ebisui

**Regular Triangle Theorems**

04:20–06:00 #162

H. Fan\*, Y. Xiao

**Research on the Application of Two-Dimensional Code Technology in the Drawing Textbooks**

04:20–06:00 #115

S. Filipowski

**Several Sources of Shapes**

04:20–06:00 #125

G. Rachkovskaya, Y. Kharabayev, N. Rachkovskaya

**Two Possible Variants of Geometrical Model of Constructing Kinematic Surfaces on the Base of Interior Revolving One Axoid by Another One**

04:20–06:00 #208

T. Alsarhan, H. Abdelfattah\*

**The Use of Multi-Media in the Teaching of Educational Unit for the Methods of Altering Some Patterns of Women's Clothing to Overcome the Problem of Fitting**

## Session TH-1

Thursday, August 07 2014, 10:15

TH-1-H1	Room: H1	TH-1-S6	Room: S6	TH-1-S7	Room: S7	TH-1-MS	Room: MS	TH-1-KL	Room: KL
Chair: Y. Yamaguchi		Chair: S. Gorjanc		Chair: E. Jurkin		Chair: H. Stachel		Chair: M. Stavrić	
10:15–10:35	#055	10:15–10:35	#173	10:15–10:35	#054	10:15–10:35	#172	10:15–10:35	#143
S. Sinha*, L. Nanetti, R. Renken, and G. ter Horst		K.-H. Brakhage		N. Kaygorodtseva* and T. Kaygorodtseva		K. Suzuki		N. Ando*, S. Ishii, N. Yamahata, and A. Shibata	
<b>Point in Polygon Via Epi-Hypo Graphs, Homotopy and Hopf's Degree Theorem</b>		<b>Dynamic Geometry and Website Setup by Automatic Object Recognition of Free-Hand Drawings and Scans</b>		<b>Logical-Constructive Teaching Approach to the Theme "Creation of Surfaces"</b>		<b>Traditional Descriptive Geometry Education in 3D-CAD/CG Era</b>		<b>A Study on the Parametric Architecture – Development of Computer Graphic Materials for Architectural Design Education</b>	
10:40–11:00	#042	10:40–11:00	#145	10:40–11:00	#138	10:40–11:00	#044	10:40–11:00	#139
Y. Imai*, H. Hiraoka, and H. Kawaharada		H. Tominaga, N. Iida, M. Mori, and K. Hirose		M. Nishii and T. Saito		H. Suzuki		K. Yasufuku	
<b>Hexahedral Mesh Generation Using Adaptive Sampling Based on Sharp Features</b>		<b>A Research of Multimedia Teaching Materials for 3-Dimension CAD Education</b>		<b>Qualitative Investigation on Formative Design Process Using 3D CAD by Industrial Designers</b>		<b>Control Method of Combined Developable Surface Design by Affine Transformation and Locus</b>		<b>Analysis on Sequence of Architectural Space by Using VR Walk-Through System</b>	
11:05–11:25	#032	11:05–11:25	#204	11:05–11:25	#101	11:05–11:25	#197	11:05–11:25	#164
C. Devahastin Na Ayudhya* and P. Kanongchaiyos		V. Čmelková		A. Cucakovic*, M. Dragovic*, L. Lazarevic, and D. Nedeljkovic		S. Nagashima		D. Lordick	
<b>Improvement of Quadric Error Metric Mesh Simplification by Reeb-Graph-Based Topological Information</b>		<b>The Aid of GeoGebra to Teach and Learn Descriptive Geometry at the Faculty of Operation and Economics of Transport and Communications at the...</b>		<b>On the Role of Circular Sections of Quadric Surfaces. The Elaboration of the Topic by Two Creative Geometric Student's Tasks</b>		<b>Some Cases Using Descriptive Geometry in Various Courses</b>		<b>The Generation of a Non-Linear Perspective for a Mural by Means of UV Mapping</b>	



## Session FR-1

Friday, August 08 2014, 8:45

FR-1-H1	Room: H1	FR-1-S6	Room: S6	FR-1-S7	Room: S7	FR-1-MS	Room: MS	FR-1-KL	Room: KL
Chair: A. Cucakovic 08:45–09:05 H. Kager, M. Rickenbacher, and A. Roncat*	#072	Chair: L. Guan 08:45–09:05 H. Yu, Y. He*, and Y. Wang	#007	Chair: I. Taras 08:45–09:05 N. Tsuruta*, J. Mitani, Y. Kanamori, and Y. Fukui	#040	Chair: V. Shelomovskii 08:45–09:05 V. De Spinadel	#030	Chair: K. Panchuk 08:45–09:05 G. Nawratil	#002
<b>The Geometry of the “Prospect Geometrique” by Micheli Du Crest (1754) – a Quantitative Analysis Within a Hybrid Least-Squares Adjustment Framework</b>		<b>Evaluation on Triangle-Triangle Intersection Tests Algorithms</b>		<b>Enumeration of Deltahedral Graphs With up to 10 Vertices</b>		<b>Generalized Metallic Means Family</b>		<b>Congruent Stewart Gough Platforms With Non-Translational Self-Motions</b>	
09:10–09:30 G. Colagreco*, H. Ortale, and G. Weiß	#015	09:10–09:30 M. Bornemann*, S. Melzer, and D. Lordick	#083	09:10–09:30 F. Fadon*, E. Ceron, F. Saiz, R. Pereda, and L. Fadon	#160	09:10–09:30 A. Pavillet	#016	09:10–09:30 Y. Klett* and P. Middendorf	#190
<b>Trullis – Architectural Archetypes</b>		<b>Automated High Precision Texturing of 3D-Scans</b>		<b>Hull Lines Plan. History. Comparison of Methodologies for 3D Model Generation</b>		<b>The Incircle Hyperboloid and Ellipsoid of the Conjugate Pavillet Tetrahedra</b>		<b>Kinematic Exploration of 1-Dof Origami Mechanisms</b>	
09:35–09:55 M. Lapaine	#059	09:35–09:55 S. Iwasawa* and Y. Kawaguchi	#119	09:35–09:55 F. Perez	#084	09:35–09:55 P. Pech	#154	09:35–09:55 A. Sokas	#034
<b>Map Projection of the World Map by Leonardo Da Vinci</b>		<b>Generating the GROWTH Model Geometry Based on the Human Posture</b>		<b>Modeling of Ship Hulls With NURBS Curves and Surfaces</b>		<b>On 3D Extension of the Simson-Wallace Theorem</b>		<b>Geometry and Fuzzy Navigation System for Virtual Robot in the Drawing Environment</b>	
—		10:00–10:20 S. Cho, H. Sato*, and H. Yoshii	#110	—		—		10:00–10:20 O. Röschel	#041
		<b>On Method of Producing a Deformed Small Figure Based on an Actual Person’s Body</b>						<b>Overconstrained Mechanisms Based on Special Planar Chains</b>	

## Session FR-2

Friday, August 08 2014, 11:05

FR-2-H1	Room: H1	FR-2-S6	Room: S6	FR-2-S7	Room: S7	FR-2-MS	Room: MS	FR-2-KL	Room: KL
Chair: D. Velichová		Chair: A. Wiltsche		Chair: F. Croft Jr.		Chair: P. Pech		Chair: M. Husty	
11:05–11:25	#170	11:05–11:25	#150	11:05–11:25	#068	11:05–11:25	#014	11:05–11:25	#165
M. Hoffmann*, I. Juhász, and G. Károlyi		I. Tanaka		S. Parrinello and S. Bertacchi*		M. Manevich*, E. Itskovich, and N. Shvalb		H. Stachel*, G. Figliolini, and J. Angeles	
<b>On a Class of Generalized Bézier Curves With Two Exponential Shape Parameters</b>		<b>A Self Checking CAD Tool for Mechanical Drawings in Introductory Courses</b>		<b>Geometry as a Tool for the Design of Military Architecture: The Experience of Giovanni Battista Antonelli</b>		<b>Self-Repeating Trajectories of Light Rays</b>		<b>A Study on Spatial Cycloid Gearing</b>	
11:30–11:50	#153	11:30–11:50	#031	11:30–11:50	#192	11:30–11:50	#061	11:30–11:50	#135
I. Taras		Z. Wang*, C. Hu, and M. Li		A. Roncat		M. Sejfried		M. Zawidzki* and T. Nagakura	
<b>Parametric Approach to Data Interpolating Curves Using the Sum of Bell-Shaped Functions</b>		<b>Study on Three-Dimensional Visualization of the Cable-Stayed Bridge</b>		<b>Visualizing Normal Equations in Least-Squares Adjustment</b>		<b>The Locus-Function of the Perspective Circle</b>		<b>Foldable Truss-Z Module</b>	
11:55–12:15	#099	11:55–12:15	#111	11:55–12:15	#155	11:55–12:15	#094	11:55–12:15	#017
M. Hünninger		V. Volkov*, O. Ilyasova, and M. Chizhik		C. Palestini		V. Shelomovskii		J. Cervantes-Sánchez and P. Zsombor-Murray*	
<b>Computing the Higher Dimensional Delaunay-Decomposition Using Depth-First-Search</b>		<b>Methodological Bases of Geometric Modeling Multifactorial Processes</b>		<b>Geometric Shapes That Generate Architectural Forms</b>		<b>Sejfriedian: Existence, Uniqueness, Constructing and the Proof of Properties</b>		<b>Kinematics of a Mobile Overconstrained RRRCR Loop</b>	