



Medjunarodni naučno-stručni skup
XXIV NAUKA I MOTORNA VOZILA 2013
SCIENCE AND MOTOR VEHICLES 2013
 JUMV International Automotive Conference

23 - 24 April 2013, Belgrade, Serbia



FINAL PROGRAMME



Automotive Engineering for Improved Safety



Expected of being supported by
 Republic of Serbia
 Ministry of Education, Science
 and Technological Development

Welcome to Belgrade

Maintaining the tradition, JUMV is organizing the 24th International Automotive Conference **SCIENCE AND MOTOR VEHICLES** in Belgrade, on 23-24 April 2013 under the motto

AUTOMOTIVE ENGINEERING FOR IMPROVED SAFETY.

The Automotive Conference "Science and Motor Vehicles" was established in 1967 and has since become an important international forum of Automotive Engineers in Serbia, Balkans and Central-Eastern Europe. It promotes the exchange of engineering and scientific knowledge and experience at the highest quality level between experts from different countries.

The 2013 conference will demonstrate continuity, tradition, and quality of 24 previously held conferences. It is an opportunity for participants to assess the development, applied automotive engineering expert scientific and engineering results with particular emphasis to improved safety.

This two day Conference will be held in English language at the Faculty of Mechanical Engineering of the University of Belgrade.

The Conference consists of the following special & technical sessions:

- VIP / Invited presentations session
- AutoSim 2011 – Special Session on Simulation in Automotive Engineering
- Safety (Vehicle & Traffic Safety, Vehicle Safety Performance, Road Accident Reconstruction and Analyses, Vehicle Safety Regulations)
- 5E - Engines, Emission, Ecology, Environment & Energy
- Advanced Engineering Technologies & Tools
- Automotive Logistics, including Vehicle Maintenance & After-Sales Support

Organization and Patronage Information

24th JUMV International Automotive Conference SCIENCE AND MOTOR VEHICLES 2013 is organized by the JUMV – The Society of Automotive Engineers in Serbia, and co-organized both by the Faculty of Mechanical Engineering of the University of Belgrade, and its Innovation Center.

Patronage to the Conference was granted by:

- FISITA* - International Federation of Automotive Engineers Societies
- EAEC - European Automotive Engineers Cooperation
- SANU - Serbian Academy of Science and Art
- AINS - Academy of Engineering Sciences of Serbia
- EVU - European Association for Accident Reconstruction and Analyses (tbc)

Ministry of Education, Science and Technological Development of Serbia is expected to grant the financial support.

* FISITA is the international federation linking the national automotive engineering societies in 37 countries. FISITA was founded in 1948 as a neutral forum for the exchange of technical knowledge on every aspect of vehicle design, development and manufacture. FISITA is a non-profit organisation committed to helping create efficient, affordable, safe and sustainable automotive transportation (www.fisita.com).

International Programme Committee

- Prof. Dr. Jovan Todorović, (ret.) University of Belgrade & JUMV, Serbia
- Prof. Dr.-Ing. habil. Egon-Christian von Glasner, EVU. Germany
- Prof. Dr.-Ing. Sigmar Micke, Germany
- Prof. Gabriele Virzi Mariotti, University of Palermo, Italy
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- Prof. Dr. Ferdinand Trenc, University of Ljubljana, Slovenia
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- Dr. Branislav Bašara, AVL List GmbH, Austria
- Dr. Marko Tirović, Reader, Cranfield University, UK
- Dr. Matyas Matolcsy, GTE, Hungary
- Mr. Alexander Berg, Dekra Automobile GmbH, Germany
- Prof. Dr. Cedomir Duboka, University of Belgrade & JUMV, Serbia

Who should attend?

Automotive engineers and scientists, Road traffic safety engineers, Accident reconstruction experts, Managers from automotive and supply industry, Academia associates, Governmental officers, Students and young engineers in automotive engineering and other related engineering sciences are invited to present results of their research, development and engineering work, and to take part at the Conference.

This Conference provides unique opportunities for participants to establish new professional and personal contacts, to exchange with other participants the results of their engineering activities, experience and expertise, and to learn more about automotive and supply industry in Serbia in order to open new business opportunities for their companies. Serbia is nowadays a country of challenges and opportunities for all those willing to extend their business to this part of Europe.

This Conference is also an opportunity for foreign participants to learn more about Serbia, and to enjoy the traditional hospitality of this part of Europe.

Schedule of Sessions

Monday, 22 April 2013 - Registration of participants with Welcome Drink

To be held on **Monday, 22 April 2013** starting at **18h00** at the **Faculty of Mechanical Engineering**, Kraljice Marije 16. Room "CESIL – Veliki Seminar".

International Conference – Tuesday 23 April and Wednesday, 24 April 2013

The Conference will be held at the **Faculty of Mechanical Engineering**, Kraljice Marije 16. The Conference Schedule is as follows:

Schedule of Sessions

| Session Start | Tuesday 23 April 2013 | Wednesday, 24 April 2013 |
|---------------|-----------------------------|--------------------------------------|
| 09h00 | Safety (1) | Engines, Emissions, Ecology,.... |
| 11h00 | AutoSim | HEV |
| 12h30 | Safety (2) | |
| 13h00 | | Lunch |
| 14h00 | Lunch | AutoEngTech&Tools |
| 15h00 | VIP / Invited presentations | AutoLogistics |
| 16h00 | | Conference Close & Farewell Drink |
| 20h00 | Conference Dinner | |

Language

English is the official Conference language.

Important Dates

- 15 March 2013** - Registration Fee payment for Authors
- Final Programme Issuing
- 10 April 2013** - Registration Fee payment for Attendees
- 22 April 2013 @ 18h00** - Registration of participants and Welcome Drink
- 23 April 2013 @ 09h00** - Opening of the Conference

Visa & Letters of Invitation

Majority of participants will be allowed to enter Republic of Serbia without visa. However, in order to avoid any misunderstandings, participants are kindly requested to visit <http://www.mfa.gov.rs/Consularaffairs.htm> for an updated information concerning the visa regime for those wishing to enter Serbia or to contact the nearest Consular Offices or Diplomatic Missions of the Republic of Serbia in their country. Upon request, JUMV will provide personal invitation letter to any participants after the registration fee was paid.

Registration

Attendance Registration Fee includes Conference CD Proceedings, admission to all Sessions, Conference Dinner, Welcome Drink, Refreshment at Coffee Breaks and catered luncheons. Author's Registration Fee includes Attendance fee + paper offer & manuscript handling & processing fee.

Registration fee will be € 425.00 for authors and € 400.00 for all other attendees (VAT included, Local Bank handling cost not included).

Early registration discount will apply for registration fee payment till the 15 January 2013.

Walk-in to the conference will not be accepted.

Upon request, special registration fee rates will be offered to students, young engineers, JUMV trusted partners, etc.

To register, please download and fill-in the Registration form from www.nmv2013.jumv.rs or fill-in the enclosed Registration Form and mail/fax it to JUMV.

Please make Money Transfer payment in EUR in line with the following instructions

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Please mail the copy of payment document (SWIFT) to +381-11-3228-079.

Payment by Cheque to JUMV or Western Union Money Transfer will also be appreciated.

Conference Venues

24th JUMV International Automotive Conference 2013 is hosted by Belgrade, the Capital of Serbia.

The Conference venues will be the Faculty of Mechanical Engineering (Mašinski fakultet), SRB-11120 Belgrade, Kraljice Marije 16., www.mas.bg.ac.rs

Advertising, Promotional & Sponsorship Opportunities

All authors, the companies from where they come and other companies are invited to benefit the Advertising, Promotional & Sponsorship Opportunities of this Conference, which are tailored to fit their individual needs.

For more information please visit www.nmv2013.jumv.rs or contact the JUMV by Phone, Fax or E-mail.

Accommodation

Accommodation is warmly recommended in the hotels within the walking distance from the Faculty of Mechanical Engineering, like

Park Hotel Beograd, 3 star, Njegoševa 2, <http://www.hotelparkbeograd.rs>, reception@hotelparkbeograd.rs

Excelsior Hotel Beograd, 3 star, Kneza Miloša 5, www.hotelexcelsior.co.rs/

Zira Hotel Beograd, 4 star, Ruzveltova 35, www.zirahotels.com/reservations@zirahotels.com

Hotel Slavija Lux, 4 star, Svetog Save 1-9, www.slavijahotel.com/,

Hotel Metropol Palace, 5 star, Bulevar K. Aleksandra 69, <http://www.metropolpalace.com/reservations@metropolpalace.com>

For information concerning accommodation you may also contact the **JUMV Tour operator TOMAS Tours, SRB-11120 Belgrade, Miročka 6**

Contact person: Mr. Toma Stojić, General Manager, toma.s@eunet.rs, www.tomas.rs

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Conference Contact Information

JUMV c/o Faculty of Mechanical Engineering * SRB-11120 Belgrade 35, POB 34. Kraljice Marije 16, Serbia
Phone: (+381-11) 3370-358, 3302-288, 3302-390, 3340-762 * Fax: (+381-11) 3302-288, 3370-364, 3228-079, or
E-mail: cduboka@eunet.rs, cduboka@mas.bg.ac.rs * <http://www.nmv2013.jumv.rs>

VIP / Invited Presentations Session**Organized by**

Prof. Dr. Čedomir Duboka, University of Belgrade, Faculty of Mechanical Engineering, SRB and
Prof. Dr.-Ing. Egon-Christian von Glasner, EVU & Daimler AG, ret., GER

NMV13VIP01 - Presentation dedicated to Prof. Dr. Jovan Todorović, JUMV Founder

DOES THE NEW EU-TYRE LABEL ACCORDING TO ECE R117 SOLVE THE PROBLEMS WE HAVE TODAY WITH TYRES IN EUROPE

J. Ahlgrimm, DEKRA, **S. Micke**, Bosch USA ret., GER, **L. Palkovics**, Knorr Bremse AG, HUN, **E.-C. von Glasner**, EVU & Daimler AG, ret., GER

NMV13VIP02**BACKGROUND TO THE STATISTICAL ANALYSIS OF BUS ROLLOVER ACCIDENTS**

M. Matolcsy, Scientific Society of Mechanical Engineers GTE Budapest, HUN

NMV13VIP03**ADVANCES IN CHARGE AIR COOLING FOR IMPROVED PERFORMANCE, FUEL ECONOMY AND EMISSIONS**

S. Cucuz, **J. Shah**, Halla Visteon Climate Control, Ch. Whelan, WDL Ltd, GER

NMV13VIP04**CHALLENGES IN STRUCTURAL OPTIMISATION AND IP PROTECTION OF DISC BRAKE CALIPERS**

M. Tirovic, **I. Hartwell**, Cranfield University, UK

NMV13VIP05**COMMERCIAL VEHICLE PLATOONING - THEORY AND REALIZATION**

J. Bokor, Knorr Bremse AG, HUN, **E.-C. von Glasner**, EVU & Daimler AG, ret., **L. Palkovics**, Knorr Bremse AG, HU

NMV13VIP06**OCCUPANT LOADS FOR DIFFERENT ACCIDENT TYPES**

Hermann Steffan, Technical University Graz, AUT

NMV13VIP07 – Special presentation**ROAD SAFETY IN THE EU – SAVING THOUSANDS OF LIVES**

Oliver Deiters, DEKRA e.V. Representation to the EU, Brussels, BEG

AutoSim 2013 - Special Session on SIMULATION IN AUTOMOTIVE TECHNOLOGY

Chaired by Dr. Sergei Sazhin, Sir Harry Ricardo Laboratories, School of Computing, Engineering and Mathematics, University of Brighton, UK

NMV13AutoSim01**NEW APPROACHED TO MODELLING OF AUTOMOTIVE FUEL DROPLETS HEATING AND EVAPORATION**

S. Sazhin, Sir Harry Ricardo Laboratories, School of Computing, Engineering and Mathematics, University of Brighton, UK

NMV13AutoSim02**A SIMULATION STUDY OF FUEL ECONOMY IMPROVEMENT POTENTIALS OF A TRANSIT BUS**

M. Kitanovic, **P. Mrdja**, **V. Petrovic**, **N. Miljic**, **S.J. Popovic**, **M. Tomic**, Faculty of Mechanical Engineering, University of Belgrade, SRB

NMV13AutoSim03**COMPARISON OF ELASTIC STRUCTURAL BEHAVIOR BETWEEN TRADITIONAL CAR STEEL DOOR AND COMPOSITE DOOR BY FEM SIMULATIONS**

J. Ji, **G. Belingardi**, Politecnico di Torino, ITA

NMV13AutoSim04**RECENT ADVANCEMENTS IN PRE & POST-PROCESSING FOR CRASH & SAFETY SIMULATION**

Y. Kolokythas, **S. Saitiel**, BETA CAE Systems SA, Thessaloniki, GR

SAFETY 2013

Chaired by Dr. Marko Tirović, Cranfield University, UK

NMV13SAF01**TIREPRINT KINEMATICS IN THE CONTACT PATCH**

H. Marzbani, **R. N. Jazar**, **M. Fard**, School of Aerospace, Mechanical, and Manufacturing Engineering, RMIT University, Melbourne, AUS

NMV13SAF02**SMART FLAT RIDE TUNING**

H. Marzbani, **R. N. Jazar**, **M. Fard**, School of Aerospace, Mechanical, and Manufacturing Engineering, RMIT University, Melbourne, AUS

NMV13SAF03**VEHICLE DYNAMIC METHODS AND VIEWPOINTS TO THE ECE-REGULATIONS AND EVALUATION METHOD OF A VEHICLE STABILITY**

M. Haataja, University of Oulu, Department of Mechanical Engineering, FIN

NMV13SAF04**RECONSTRUCTION OF A MOTORCYCLE HEAD-ON COLLISION - CZECH REPUBLIC CASE STUDY**

N. Khatib, **M. Semela**, **A. Vemola**, Institute of Forensic Engineering, Brno University of Technology, CZE

NMV13SAF05**PREDICTION OF DISC BRAKE CONTACT SURFACE TEMPERATURE**

A. Grkić, **D. Mikluc**, **S. Perić**, Military Academy, **Č. Duboka**, University of Belgrade, Faculty of Mechanical Engineering, Belgrade SRB

NMV13SAF06**ESTIMATION OF BRAKE LINING FRICTION UNDER EXTREMELY HIGH TEMPERATURES**

A. Grkić, **M. Krsmanović**, **S. Muždeka**, Military Academy, **Ž. Arsenić**, University of Belgrade, Faculty of Mechanical Engineering, Belgrade SRB

NMV13SAF07**EVALUATION METHODOLOGY OF DESIGN PARAMETERS INFLUENCE TO THE BRAKING PROCESS OF PASSENGER CAR-TRAILER COMBINATION**

D. Danev, **M. Kjosevski**, **I. Gjurkov**, **V. Jordanoska**, University "St. Kiril and Metodij" in Skopje, Faculty of Mechanical Engineering, MKD

NMV13SAF08**MONITORING AND REGULATION OF VEHICLE BRAKE TESTER**

M. Božić, **A. Vučetić**, **P. Ilinčić**, **Z. Lulić**, Faculty of Mechanical and Naval Engineering, Zagreb, CRO

NMV13SAF09**IMPROVING ROAD SAFETY THROUGH THE SYSTEM OF TECHNICAL INSPECTION OF VEHICLES**

G. Zovak, **E. Bazijanac**, **Ž. Šarić**, Faculty of transport and traffic sciences, Zagreb, CRO

NMV13SAF10**THE INFLUENCE OF INSPECTION OF VEHICLE CONDITION ON ROAD SAFETY**

M. Gordić, AMSS-CMV, Belgrade, SRB

NMV13SAF11**ZER[O] – AN ULTRA-LIGHT, ELECTRIC FOAM VEHICLE FOR CITIES, WITH HIGH PASSIVE SAFETY - OK**

V. A Kefalas, **G. Katsaris**, **G. Damaskos** National TU of Athens, GRE

NMV13SAF12**ADVANCED DEVELOPMENT OF CAR BODY IN ZASTAVA - HISTORICAL OVERVIEW**

M. Milovanović, Zastava vehicle Group, Kragujevac, SRB

NMV13SAF13**ON THE WEIGHT DISPLACEMENT IN CURVE AND THE ROADABILITY OF A 4WS VEHICLE**

G. Virzi Mariotti, **S. Lo Guasto**, Dipartimento di Ingegneria Chimica, Gestionale, Informatica, Meccanica, Università di Palermo, ITA,

NMV13SAF13**ASSESSMENT OF THE IMPACT OF VEHICLE TECHNICAL CONDITION ON ROAD SAFETY BY MEANS OF MCDA**

K. JAKIMOVSKA, **I. GJURKOV**, *Ss. Cyril and Methodius University, Faculty of Mechanical Engineering, Skopje, MKD, **Č. DUBOKA**, University of Belgrade, Faculty of Mechanical Engineering, SRB

Hybrid Electric Vehicles 2013*Organized by Dr. Zlatomir Živanović, Institute of Nuclear Sciences "Vinča", Belgrade, SRB*

NMV13HEV01
 HYBRIDIZATION OF HYDROGEN FUEL CELL ELECTRIC VEHICLE - DOES START-STOP SAVE FUEL?
 M. Milačić, *Research and Advanced Engineering, Ford Motor Company, Fuel Cell Center, Dearborn, USA*

NMV13HEV02
 DESIGN, FABRICATION AND EVALUATION OF A NON-CONTACT POWER SUPPLY SYSTEM USING BULK CONDUCTOR COILS
 K. Kobayashi, K. Seki, H. Luo, Y. Kamiya, S. Takahashi, Y. Daisho, *Waseda University, Tokyo, JPN*

NMV13HEV03
 ADVANCED VEHICLE INTEGRATION OF HYBRID AND ELECTRIC POWERTRAIN CONCEPTS
 B. Meek, J. Smolders, J. Anthonis, H. Van der Auweraer, *LMS International, Leuven, BEL*

NMV13HEV04
 REQUIREMENTS ON CHASSIS IN ELECTRIC VEHICLES
 R. Henze, B. Schönemann, F. Küçükay, *Institute of Automotive Engineering, TU Braunschweig, GER*

NMV13HEV05
 ELECTRIC DRIVEN BI-DIRECTIONAL TUNNEL RESCUE VEHICLE
 G. Kukec, *Faculty of Mechanical & Naval Engineering, Zagreb, CRO*

NMV13HEV06
 ENERGY CONVERSION EFFICIENCY AND WtW CO₂ EMISSIONS OF A MEDIUM DUTY TRUCK – COMPARISON OF PHEV AND ICEV POWERTRAIN TOPOLOGY – OK!
 T. Katrašnik, *University of Ljubljana, Faculty of Mechanical Engineering, SLO*

NMV13HEV07
 HYBRIDIZATION OF CITY BUSES – A WAY TO REDUCE FUEL CONSUMPTION AND HARMFUL EMISSIONS
 Z. Živanović, Dj. Diligenski, Z. Jovanović, Ž. Šakota, *Institute "Vinča", S. Mišanović, GSP, Belgrade, SRB*

NMV13HEV08
 A COMPARATIVE ANALYSIS OF DIFFERENT HYBRID BUS POWERTRAIN CONFIGURATIONS
 Z. Živanović, Dj. Diligenski, Z. Jovanović, Ž. Šakota, *Institute "Vinča", Belgrade, SRB*

5E - Engines, Emissions, Ecology, Environment, Energy*Chaired by Prof. Dr. Ferdinand Trenc, University of Ljubljana, SLO*

NMV13*5E01
 COMPARISON BETWEEN HYDRAULIC ENGINE MOUNTS AND PIECEWISE LINEAR VIBRATION ISOLATORS
 H. Marzbani, R. N. Jazar, M. Fard, *School of Aerospace, Mechanical, and Manufacturing Engineering, RMIT University, Melbourne, AUS*

NMV13*5E02
 ACQUISITION AND ANALYSIS OF VEHICLE DATA VIA THE EOBD INTERFACE - DETERMINATION OF ENGINE CHARACTERISTICS
 A. Vučetić, M. Božić, P. Ilinčić, Z. Lulić, *Faculty of Mechanical and Naval Engineering, University of Zagreb, CRO*

NMV13*5E03
 THERMAL REGULATION OF THE DIESEL COMBUSTION CHAMBER WITH MULTILAYER SEMITRANSSPARENT THERMAL BARRIER MATERIAL
 V. Merzlikin, S. Cheranev, MAMI, V. Veselov, *Plekhanov Russian University of Economics, Moscow, RUS, V. Prediger, Osnabruck University of Applied Science, GER, L. Gury, Haute Ecole Arc Ingenierie, Neuchatel, SUI*

NMV13*5E04
 ANALYSIS OF THE INPUT DATA TO ESTIMATE THE ROAD FREIGHT TRANSPORT RELATED CO₂ EMISSIONS IN THE REPUBLIC OF SERBIA
 J. Trifunović, A. Manojlović, V. Momčilović, O. Medar, *University of Belgrade, Faculty of Transport and Traffic Engineering, SRB*

NMV13*5E05
 BIOFUELS AS THE CHANCE TO REDUCE POLLUTANT EMISSIONS AND SLOW DOWN THE EXPLOITATION OF MINERAL OIL
 R. Gligorijevic, J. Jevtic, Dj. Borak, *IMR-Institute, Belgrade, SRB*

NMV13*5E06
 IMPROVING EVALUATION OF A ROTATION COMBUSTION ENGINE WITH VARIABLE WORK SPACE – VWS
 M. Đudurović, *ret., Universities of Banja Luka and East Sarajevo, M. Ajanović, Z. Nunić, Faculty of Transportation, Doboj, B. Vranješ, University of Banja Luka, RSR*

ADVANCED ENGINEERING TECHNIQUES & TOOLS*Chaired by Dr. Stojan Čučuz, Visteon Climate Engineering Services Deutschland GmbH, Kerpen, GER*

NMV13AETT01
 RESEARCH OF THERMAL AND HYDRAULIC PROCESSES IN THE STRUCTURED ROTARY REGENERATOR
 R. Alexeev, V. Merzlikin, A. Kostyukov, MAMI, V. Sutugin, *ROSKOSMOS, Moscow, RUS*

NMV13AETT02
 INFLUENCE OF THE CLUTCH ENGAGEMENT/DISENGAGEMENT TO THE FRICTION LINING LIFETIME IN EXPLOITATION AND LABORATORY CONDITIONS
 D. Danev, M. Kjosevski, *University of Skopje, S. Simeonov, University of Stip, MKD*

NMV13AETT03
 LOAD ANALYSIS OF A POWER TRANSMISSION HAVING CLEARANCE
 M. Damjanović, S. Simović, R. Durković, *University of Podgorica, MNE, Č. Duboka, University of Belgrade, SRB*

AUTOMOTIVE LOGISTICS*Chaired by Prof. Dr. Jovan Todorović, University of Belgrade (ret.), SRB*

NMV13AutoLog01
 DETERMINATION OF TRAFFIC FLOW AND ITS STRUCTURE IN URBAN ENVIRONMENT AS ONE OF THE FUNDAMENTAL MACROSCOPIC TRAFFIC STREAM PARAMETERS
 A. Kostikj, M. Kjosevski, *Faculty of Mechanical, Engineering, Lj. Kočarev, Faculty of Computer Science and Engineering, University of Skopje, MKD*

NMV13AutoLog02
 INTEGRATED MANAGEMENT OF THE VEHICLE FLEET MAINTENANCE PROCESS
 D. Vujanović, V. Momčilović, N. Bojović, S. Bunčić, *University of Belgrade, Faculty of Transport and Traffic Engineering, SRB*

NMV13AutoLog03
 INFLUENCE OF THE MARKET DEMAND DISPARITIES ON TIRE DISTRIBUTION COSTS
 M. Milović, *GP Auto shop, A. Manojlović, M. Cvetković, J. Trifunović, University of Belgrade, Faculty of Transport and Traffic Engineering, SRB*

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Congress Dinner on Tuesday, 23 April 2013 at a price of 50 € per person

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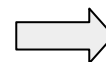
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No charge for cancellations received before 1 March 2013. Cancellation received after 25 March 2013 will result in cancellation fee of 30% of registration fee. No refunds for cancellations after 5 April 2013. No charge for substitutions at any time.



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