



UNIVERSITY OF NATIONAL AND WORLD ECONOMY

The Spirit Makes The Power

**8TH INTERNATIONAL CONFERENCE ON APPLICATION OF
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS
IN ECONOMY AND EDUCATION
(ICAICTSEE – 2018)**

October 18 – 20th, 2018

University of National and World Economy

Sofia, Bulgaria

<http://icaictsee.unwe.bg/>

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Dear Colleagues,

On behalf of the Conference Committees I have the honor and pleasure to welcome you to **8th International Conference on Application of Information and Communication Technology and Statistics in Economy and Education (ICAICTSEE-2018)** which takes place on October 18 – 20th 2018 at the University of National and World Economy (UNWE), Sofia, Bulgaria. The conference is organized by the Faculty of Applied Informatics and Statistics, UNWE. **ICAICTSEE-2018** is a sponsored event by the ***International Federation for Information Processing (IFIP)*** (<http://ifip.org/>). **IFIP** is a leading professional & socially responsible ICT worldwide.

The eight conferences have gathered a significant number of participants from many universities, R&D institutes, organizations from more than 30 countries, the result of which is more than 800 published papers - rich of ideas, experience and future visions. Nevertheless, we are fully determined and confident to proceed with the next step in our global sharing of knowledge. So far all conference proceedings have been indexed by ***ProQuest, EBSCOhost*** and ***Google Scholar***.

The ICAICTSEE-2018 is also dedicated to the **10th** anniversary of the Faculty of Applied Informatics and Statistics and to the **50th** anniversary of the Department of Information Technologies and Communications at the University of National and World Economy, Sofia, Bulgaria.

Prof. Dr. Dimiter G. Velev
ICAICTSEE-2018 Chair

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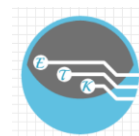


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ICAICTSEE-2018

CONFERENCE PROGRAM

October 18th, 2018

- 09:00 – 09:30 – Registration (Big Conference Hall)**
- 09:30 – 12:00 – Conference Official Opening (Big Conference Hall)**
- 12:00 – 13:00 – Lunch Break**
- 13:00 – 15:00 – Sessions (according to the schedule)**
- 15:00 – 15:30 – Coffee Break**
- 15:30 – 17:30 – Sessions (according to the schedule)**
- 18:00 – Gala Dinner**

October 19th, 2018

- 10:00 – 12:30 – Session (according to the schedule)**
- 12:30 – 13:30 – Lunch Break**
- 13:30 – 19:30 – Sofia City Cultural Tour**
- 19:30 – 21:00 – Diner**

October 20th, 2018

- 09:30 – 12:30 – Sessions (according to the schedule)**
- 12:30 – 13:30 – Lunch Break**
- 13:30 – 16:00 – Sessions (according to the schedule)**
- 16:00 – Conference Closing**

OCTOBER 18TH, 2018

09:30 – 12:00

Conference Official Opening
(Big Conference Hall)

WELCOMING THE
ICAICTSEE-2018 PARTICIPANTS

KEYNOTE SPEECH 1

SMART CITY DEVELOPMENT IN TAIWAN

Patty Lin

Director of Taiwan Trade Center Sofia

KEYNOTE SPEECH 2

THE GEMSEEK GROUP

Borislav Domuschiev

Executive Director

cQuest Research and Consulting, Gemseek Group

DISCUSSION

GROUP PHOTO

OCTOBER 18TH, 2018

SESSION I - 13:00 – 15:00 - BIG CONFERENCE HALL

SESSION CHAIR: ASSOC. PROF. DR. ROSEN KIRILOV

PAPER	TITLE
BA-36	ONE OPPORTUNITY FOR FORECASTING THE TOTAL INDUSTRIAL PRODUCTION INDEX (IPI) BASED ON BUSINESS INDICATORS IN INDUSTRY Sonia Chipeva¹, Valentin Chavdarov² ¹ UNWE, Department of Statistics and Econometrics Sofia, Bulgaria ² NSI, Sofia, Bulgaria
BA-02	FUTURE DIGITAL SOCIETY 5.0: ADVERSARIES & OPPORTUNITIES Zlatogor Minchev¹, Luben Boyanov² ¹ Institute of ICT, Bulgarian Academy of Sciences, Sofia, Bulgaria ² University of National and World Economy, Sofia, Bulgaria
BA-03	ARCHITECTURAL APPROACH FOR INFORMATION SECURITY SYSTEMS DESIGN Ivan Gaydarski, Zlatogor Minchev, Rumen Andreev Institute of ICT, Bulgarian Academy of Sciences, Sofia, Bulgaria
BA-05	OPPORTUNITIES FOR BUILDING A STUDENT ELECTRONIC PORTFOLIO Rosen Kirilov University of National and World Economy, Sofia, Bulgaria
BA-06	CONCEPTUAL MODEL OF INFORMATION SYSTEM FOR CAREER DEVELOPMENT OF STUDENTS Rosen Kirilov University of National and World Economy, Sofia, Bulgaria
BA-18	THE DIGITAL TRANSFORMATIONS IN THE ACCOUNTING SYSTEMS OF THE BULGARIAN ENTERPRISES Borislav Boyanov University of National and World Economy, Sofia, Bulgaria
BA-30	ARCHITECTURE OF AN INTEGRATED SYSTEM OF ELECTRONIC ADMINISTRATIVE SERVICES FOR CITIZENS, BASED ON THE MAIN INTEGRATION TECHNOLOGIES Desislava Petrova University of Economics – Varna, Bulgaria
BA-31	GOALS AND BENEFITS OF IMPLEMENTING BUSINESS PROCESS MANAGEMENT SYSTEMS Albena Mincheva University of National and World Economy, Sofia, Bulgaria
BA-32	BUSINESS PROCESS MODEL OPTIMIZATION AS IMPORTANT STEP OF BUSINESS EVOLUTION Albena Mincheva, Geno Stefanov University of National and World Economy, Sofia, Bulgaria

PAPER	TITLE
BA-11	<p align="center">SAFETY TRUCK BRAKE SYSTEMS</p> <p align="center">Tihomir Todorov¹, Mario Iliev²</p> <p align="center">¹ Burgas Free University, Burgas, Bulgaria</p> <p align="center">² Faculty of Physics, Sofia University St. Kl. Ohridski, Sofia, Bulgaria</p>
BA-12	<p align="center">MATHEMATICAL MODELING OF HUMAN MIGRATION WITH REACTION-DIFFUSION PDES</p> <p align="center">Miroslava Y. Ivanova¹, Ivan S. Ivanov¹, Veselin G. Boiadzhiev²</p> <p align="center">¹ Department of Mathematics, Faculty of Applied Informatics and Statistics, UNWE, Sofia, Bulgaria</p> <p align="center">² Social-Economic Theories Section, Faculty of General Economics, UNWE 1700 Sofia, Bulgaria</p>
BA-13	<p align="center">METHODOLOGY FOR REDUCTION OF THE ECONOMIC MODEL SYSTEMS WITH QUASI-STEADY-STATE APPROXIMATION</p> <p align="center">Elena V. Nikolova¹, Ivan P. Jordanov^{1,2}</p> <p align="center">¹ IMECH - BAS, Acad. G. Bonchev Str., Bl. 4, 1113 Sofia, Bulgaria</p> <p align="center">² UNWE, Sofia, Bulgaria, IMECH - BAS, Sofia, Bulgaria</p>
BA-14	<p align="center">DYNAMICS ANALYSIS OF A DELAYED ECONOMIC MODEL</p> <p align="center">Ivan N. Dushkov¹, Ivan P. Jordanov²</p> <p align="center">¹ Faculty of Preschool and Primary School Education, Sofia University St. Kl. Ohridski, Sofia, Bulgaria</p> <p align="center">² UNWE, Sofia, Bulgaria, IMECH - BAS, Sofia, Bulgaria</p>
BA-15	<p align="center">A COMPARATIVE NUMERICAL ANALYSIS FOR FINDING THE EXACT SOLUTION OF THE ZERO COUPON BOND'S PRICE IN THE CLASSICAL VASICEK MODEL TAKING INTO ACCOUNT THE IMPACT OF THE MARKET PRICE OF RISK</p> <p align="center">Meglana D. Lazarova¹, Sylvi - Maria T. Gurova²</p> <p align="center">¹ Technical University of Sofia, Faculty of Applied Mathematics and Informatics, Sofia, Bulgaria</p> <p align="center">² Institute of Information and Communication Technologies - BAS, Sofia, Bulgaria</p>
BA-16	<p align="center">AN APPROACH FOR IMPROVEMENT NETWORK PLANNING IN DEFINING OPTIMAL ROUTES FOR URBAN PASSENGER TRANSPORT IN SOFIA</p> <p align="center">Miglena Ivanova</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>
BA-38	<p align="center">ANALYSIS OF SMART WASTE MANAGEMENT SYSTEMS USING INTERNET OF THINGS</p> <p align="center">Veliko Ivanov</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>
BA-39	<p align="center">ANALYSIS OF SMART PARKING SYSTEMS USING INTERNET OF THINGS</p> <p align="center">Veliko Ivanov</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>
BA-40	<p align="center">METHODS OF PROVIDING SELF-SERVICE OPPORTUNITIES IN BUSINESS INTELLIGENCE SYSTEMS</p> <p align="center">Violeta Ignatova-Stoitseva</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>

PAPER	TITLE
BA-19	OPPORTUNITIES OF MEASURING THE EFFICIENCY OF ADMINISTRATIVE PROCESSES Katia Kirilova University of National and World Economy, Sofia, Bulgaria
BA-20	MODERN TRENDS OF E-GOVERNMENT IN BULGARIA Katia Kirilova University of National and World Economy, Sofia, Bulgaria
BA-21	GUIDELINES FOR DATA MODEL SELECTION AND USE IN INFORMATION SYSTEMS FOR WEB MINING Plamen Milev University of National and World Economy, Sofia, Bulgaria
BA-22	TECHNOLOGICAL APPROACHES FOR PRESENTATION OF DATA ANALYSIS IN WEB APPLICATIONS Plamen Milev University of National and World Economy, Sofia, Bulgaria
BA-23	TECHNOLOGICAL ISSUES OF ANALYZING UNSTRUCTURED DATA Yavor Tabov University of National and World Economy, Sofia, Bulgaria
BA-24	MODERN TRENDS OF RETRIEVING INFORMATION FROM INTERNET Yavor Tabov University of National and World Economy, Sofia, Bulgaria
BA-25	GAMIFICATION IN MANAGEMENT INFORMATION SYSTEMS Zornitsa Yordanova University of National and World Economy, Sofia, Bulgaria
BA-26	MANAGEMENT INFORMATION SYSTEMS (MIS) BOOST CORPORATE INNOVATION COMPETENCIES Zornitsa Yordanova University of National and World Economy, Sofia, Bulgaria
BA-27	EXTENSIBLE BUSINESS REPORTING LANGUAGE (XBRL) – A TECHNICAL OVERVIEW Ivan Belev University of National and World Economy, Sofia, Bulgaria
BA-28	CHALLENGES FOR SUCCEEDING WITH REGULATORY REPORTING IN XBRL Ivan Belev University of National and World Economy, Sofia, Bulgaria
BA-29	MODERN MAJOR CMS CLASSIFICATIONS AND COMBINED CLASSIFICATION Preslav Prodanov University of National and World Economy, Sofia, Bulgaria

OCTOBER 19TH, 2018

SESSION IV - 10:00 – 12:30 - **BIG CONFERENCE HALL**

SESSION CHAIR: ASSOC. PROF. DR. ALEXANDER NAIDENOV

PAPER	TITLE
FA-01	OPEN DATA AND ITS BUSINESS MODELS Tetsuo Noda Shimane University, Matsue-City, Japan
BA-04	SOME IDEAS ABOUT STUDENT PROJECTS IN THE SUBJECTS INFORMATICS AND INFORMATION TECHNOLOGIES IN SECONDARY SCHOOL Svetlana Vasileva, Alex Kondov NMHS, , Dobrich, Bulgaria
BA-08	CAPABILITIES OF 3D PRINTERS FOR VISUALIZATIONS OF MATHEMATICAL SOLUTIONS Kiril Mihaylov¹, Elica Ilieva¹, Mario Iliev² ¹ Faculty of Mathematics and Informatics, Sofia University St. Kl. Ohridski, Sofia, Bulgaria ² Faculty of Physics, Sofia University St. Kl. Ohridski, Sofia, Bulgaria
BA-09	MODERNIZATION OF SPRAY DRYER Mario Iliev Faculty of Physics, Sofia University St. Kl. Ohridski, Sofia, Bulgaria
BA-10	APPLICATION OF THE GENERALIZED METHOD OF THE SIMPLEST EQUATION FOR SOLVING SPACE-TIME PDES Nikolay K. Vitanov¹, Ivan P. Jordanov^{1,2} ¹ IMECH - BAS, Sofia, Bulgaria ² UNWE, Sofia, Bulgaria, IMECH - BAS, Sofia, Bulgaria
BA-01	TEACHING STATISTICS – APPROACH UPGRADE IS NEEDED Alexander Naidenov University of National and World Economy, Sofia, Bulgaria
BA-07	VIRTUAL REALITY APPLICATION PROBLEMS IN EDUCATION Dimiter Velev¹, Plamena Zlateva² ¹ University of National and World Economy, Sofia, Bulgaria ² Institute of Robotics, Bulgarian Academy of Sciences, Sofia, Bulgaria
BA-33	ADOPTING E-LEARNING TOOLS INTO MARKETING COURSES TO ENCOURAGE STUDENTS EXPERIENCE THEIR OWN DECISION-MAKING ATTITUDES Vanya Slantcheva-Baneva MT&M College, Sofia, Bulgaria

OCTOBER 20TH, 2018

SESSION V - 09:30 – 12:30 - **BIG CONFERENCE HALL**

SESSION CHAIR: PROF. DR. DIMITER VELEV

PAPER	TITLE
FA-02	<p>ANALYZING EMOTIONAL EXHAUSTION OF A MEDICAL CENTER IN TAIWAN FROM VIEWPOINTS OF PHYSICIANS AND NURSES</p> <p>Shih Yu Yang¹, Yii-Ching Lee², Chih-Hsuan Huang³, Cheng-Feng Wu⁴, Chia-Hui Yu⁵, Hsin-Hung Wu¹</p> <p>¹ Department of Business Administration, National Changhua University of Education, Taiwan ² Department of Health Business Administration, Hung Kuang University, Taichung, Taiwan ² School of Health Policy and Management, Chung Shan Medical University, Taichung, Taiwan ³ School of Business Administration, Hubei University of Economics, Wuhan, Hubei Province, China ³ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ⁴ School of Logistics and Engineering Management, Hubei University of Economics, Wuhan, China ⁴ Research Center of Hubei Logistics Development, Hubei University of Economics, Wuhan, China ⁴ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ⁵ Medical Quality Department, Chung Shan Medical University Hospital, Taichung, Taiwan ⁵ School of Nursing, Chung Shan Medical University, Taichung, Taiwan</p>
FA-03	<p>A LONGITUDINAL STUDY ON HOW NURSES WITH DIFFERENT GENDERS PERCEIVE EMOTIONAL EXHAUSTION FROM A MEDICAL CENTER IN TAIWAN</p> <p>Chia-Hui Yu¹, Chih-Hsuan Huang², Yii-Ching Lee³, Cheng-Feng Wu⁴, Hsin-Hung Wu⁵</p> <p>¹ Medical Quality Department, Chung Shan Medical University Hospital, Taichung, Taiwan ¹ School of Nursing, Chung Shan Medical University, Taichung, Taiwan ² School of Business Administration, Hubei University of Economics, Wuhan, China ² Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ³ Department of Health Business Administration, Hung Kuang University, Taichung, Taiwan ³ School of Health Policy and Management, Chung Shan Medical University, Taichung, Taiwan ⁴ School of Logistics and Engineering Management, Hubei University of Economics, Wuhan, China ⁴ Research Center of Hubei Logistics Development, Hubei University of Economics, Wuhan, China ⁴ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ⁵ Department of Business Administration, National Changhua University of Education, Taiwan</p>
FA-04	<p>THE PERCEPTIONS OF SAFETY CLIMATE, JOB SATISFACTION AND EMOTIONAL EXHAUSTION IN PEDIATRIC NURSES: THE DIFFERENCE BETWEEN BETTER AND WORSE WORK-LIFE CLIMATE</p> <p>Cheng-Feng Wu¹, Hsin-Hung Wu², Yii-Ching Lee³, Chih-Hsuan Huang⁴, Li Li⁵</p> <p>¹ Research Center of Hubei Logistics Development, Hubei University of Economics, Wuhan, China ¹ School of Logistics and Engineering Management, Hubei University of Economics, Wuhan, China ¹ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ² Department of Business Administration, National Changhua University of Education, Taiwan ² Department of M-Commerce and Multimedia Applications, Asia University, Taichung, Taiwan ³ Department of Health Business Administration, Hung Kuang University, Taichung, Taiwan ³ School of Health Policy and Management, Chung Shan Medical University, Taichung, Taiwan ⁴ School of Business Administration, Hubei University of Economics, Wuhan, China ⁴ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ⁵ College of Law & Business, Hubei University of Economics, Wuhan, Hubei Province, China</p>

FA-05	<p align="center">AN EMPIRICAL STUDY OF THE DEVELOPMENT OF PATIENT SAFETY ATMOSPHERE: THE DIFFERENCE BETWEEN MEDICAL CENTER AND REGIONAL TEACHING HOSPITAL FROM VIEWPOINTS OF REGISTERED NURSES</p> <p align="center">Chih-Hsuan Huang¹, Hsin-Hung Wu², Yii-Ching Lee³, Cheng-Feng Wu⁴, Li Li⁵</p> <p align="center">¹ School of Business Administration, Hubei University of Economics, Wuhan, China ¹ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ² Department of Business Administration, National Changhua University of Education, Taiwan ² Department of M-Commerce and Multimedia Applications, Asia University, Taichung, Taiwan ³ Department of Health Business Administration, Hung Kuang University, Taichung, Taiwan ³ School of Health Policy and Management, Chung Shan Medical University, Taichung, Taiwan ⁴ Research Center of Hubei Logistics Development, Hubei University of Economics, Wuhan, China ⁴ School of Logistics and Engineering Management, Hubei University of Economics, Wuhan, China ⁴ Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan, China ⁵ College of Law & Business, Hubei University of Economics, Wuhan, China</p>
FA-06	<p align="center">ESTABLISHING A MONITORING SYSTEM ON SUPPLIER PERFORMANCE EVALUATION OF PASSIVE COMPONENTS</p> <p align="center">Chao-Ching Tseng, Hsin-Hung Wu</p> <p align="center">Department of Business Administration, National Changhua University of Education, Taiwan</p>
FA-07	<p align="center">EVENT MANAGEMENT PROCESS (CASE STUDY IN THE EVENT COALTRANS WELCOME RECEPTION IN BALI INDONESIA)</p> <p align="center">John Sihar Manurung, Mustika Putri Situmorang</p> <p align="center">Politeknik Negeri Medan, Indonesia</p>
FA-08	<p align="center">ANALYSIS OF MONETIZATION PROCESSES IN THE CONTEXT OF SHADOW DIGITAL ECONOMICS</p> <p align="center">Serghei Ohrimenco, Grigori Borta</p> <p align="center">ASEM, Chisinau, Moldova</p>
FA-09	<p align="center">DIGITAL INCLUSION AND EXCLUSION: THE OPPORTUNITY OF NEW LABOR MARKET</p> <p align="center">Ghenadie Ciobanu</p> <p align="center">INCSMPS, Bucharest, Romania</p>
FA-10	<p align="center">CREATIVE ACCOUNTING IN FINANCIAL STATEMENTS</p> <p align="center">Lica Erhan,</p> <p align="center">Academy of Economic Studies of Moldova, Chisinau, Republic of Moldova</p>
FA-11	<p align="center">INFORMATION AND ANALYTICAL SYSTEM FOR CLUSTERIZATION AND HYPOTHESIS TESTING IN BIOLOGICAL RESEARCHES</p> <p align="center">Iryna Borodkina¹, Heorhii Borodkin²</p> <p align="center">¹ KNUCaA, Kyiv, Ukraine ² NULES of Ukraine, Kyiv, Ukraine</p>
BA-17	<p align="center">STEP BY STEP CONSIDERATION'S METHOD FOR EQUATIONS DESCRIBING LINEAR SYSTEMS AND ITS APPLICATIONS</p> <p align="center">Kostadin Sheyretski, Meglena Lazarova</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>

PAPER	TITLE
FA-12	<p align="center">THE SITUATION-SEMANTIC MODELING OF COMPLEX ECONOMIC SYSTEMS</p> <p align="center">Olha Tkachenko¹, Oleksandr Tkachenko¹, Kostiantyn Tkachenko²</p> <p align="center">¹ Kiev National University of Culture and Arts, Kyiv, Ukraine ² State University of Infrastructure and Technology, Kyiv, Ukraine</p>
FA-13	<p align="center">THE MEASUREMENT OF THE IMPACT OF INTERNATIONAL FINANCIAL INSTITUTIONS ON THE BASIS OF THE CENOSIS THEORY.</p> <p align="center">Stupachev Serghei</p> <p align="center">ASEM, Chisinau, Republic of Moldova</p>
BA-37	<p align="center">APPLICATION OF INFORMATION TECHNOLOGIES FOR BUSINESS ANALYSIS</p> <p align="center">Rositsa Ivanova</p> <p align="center">University of National and World Economy, Sofia, Bulgaria</p>
FA-14	<p align="center">IMPACT OF THE REFORM OF ENERGY SUBSIDIES IN MOLDOVA</p> <p align="center">Rafal Stanek¹, Mihai Roşcovan², Olga Driga³, Eduard Hirbu⁴</p> <p align="center">¹ SST-Konsult, Poland ² Business Consulting Institute , Republic of Moldova ³ Academy of Public Administration, Republic of Moldova ⁴ Academy of Economic Studies of Moldova (University), Republic of Moldova</p>
FA-15	<p align="center">APPLICATION OF INFORMATION TECHNOLOGIES IN THE ECONOMY AND EDUCATION OF THE REPUBLIC OF BELARUS: CONDITION, PROBLEMS AND PROSPECTS</p> <p align="center">Olga Pugacheva</p> <p align="center">Gomel State University, Gomel, Belarus</p>
FA-16	<p align="center">THE DEMOGRAPHIC COMPONENT OF THE HUMAN DEVELOPMENT INDEX OF THE REPUBLIC OF MOLDOVA</p> <p align="center">Eduard Hirbu</p> <p align="center">Academy of Economic Studies of Moldova (University), Republic of Moldova</p>
FA-17	<p align="center">THE DEVELOPMENT AND APPLICATION OF QUADRUPLE HELIX MODEL IN INNOVATION MANAGEMENT</p> <p align="center">Ivana Marinović Matović¹, Pedja Milosavljević²</p> <p align="center">¹ Addiko Bank AD, Niš, Serbia ² Faculty of Mechanical Engineering, Niš, Serbia</p>
BA-34	<p align="center">INTERNET TECHNOLOGY IMPACT ON MICRO AND SMALL PUBLISHING HOUSES</p> <p align="center">Simeon Arnaudov, Ivelin Mihaylov</p> <p align="center">Asenevtsi publishing house, Sofia, Bulgaria</p>
BA-35	<p align="center">A STUDY OF BULGARIAN WEB SITES WHICH OFFER BOOKS ON INFORMATION TECHNOLOGIES</p> <p align="center">Ivelin Mihaylov, Simeon Arnaudov</p> <p align="center">Asenevtsi publishing house, Sofia, Bulgaria</p>