IASTED International Conference
Communication Systems and Networks
~ CSN 2002 ~
Benalmádena, Málaga, Spain
September 9-12, 2002

PROGRAM

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The International Association of Science and
Technology for Development (IASTED)
- Technical Committee on Communications

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C.E. Palau Salvador
Polytechnic University of Valencia, Spain

LOCATION

Hotel Torrequebrada
Avda. del Sol s/n
29630 Benalmádena-Costa
Málaga, Spain

Tel: +34 952 44 6000
Fax: +34 952 44 5702
E-mail: reservas@torrequebrada.com
Web: http://www.torrequebrada.com/

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Onn, Malaysia
W. Zhuang - Univ. of Waterloo, Canada
A.M. Zoubir - Curtin Univ. of Technology, Australia

PROGRAM OVERVIEW

Monday, September 9, 2002

10:30-13:30	Registration (*Alboran Foyer*)
13:30-14:00	Welcome Address (*Alboran I*)
14:00-17:30	Tutorial – Multimedia Communication Systems: Techniques, Standards, and Networks (*Alboran IV*)
	Session 1 – Coding, Equalization, and Modulation in Telecommunication Systems I (*Alboran I*)
	Session 2 – Data Networks I (*Mediterraneo III*)
15:30-16:00	Coffee Break (*Alboran Foyer*)
17:45-22:00	Optional Tour – Mijas Village (*Hotel Lobby*)

Tuesday, September 10, 2002

09:00-13:00	Session 3 – Mobile IP (*Alboran I*)
	Session 4 – CDMA Systems (*Mediterraneo III*)
11:00-11:30	Coffee Break (*Alboran Foyer*)
14:00-17:30	Session 5 – Signal Processing for Telecommunications (*Alboran I*)
	Session 6 – Optical Communications (*Mediterraneo III*)
16:00-16:30	Coffee Break (*Alboran Foyer*)
19:45	Dinner Banquet (*Garden Area*)

Wednesday, September 11, 2002

09:00-11:30	Session 7 – Data Networks II (*Alboran I*)
	Session 8 – Public Wireless Networks (*Mediterraneo III*)
10:00-10:30	Coffee Break (*Alboran Foyer*)
14:00-16:30	Session 9 – Special Session on Security and Management in Data Networks and Mobile Communications (*Alboran I*)
	Session 10 – Wireless Networks I (*Mediterraneo III*)
15:00-15:30	Coffee Break (*Alboran Foyer*)

Thursday, September 12, 2002

09:00-11:30	Session 11 – Coding, Equalization, and Modulation in Telecommunication Systems II (*Alboran I*)
	Session 12 – Wireless Networks II (*Mediterraneo III*)
10:00-10:30	Coffee Break (*Alboran Foyer*)

Friday, September 13, 2002

08:00-19:45	Optional Tour – City of Granada and the Alhambra Palace (*Hotel Lobby*)

IASTED

MONDAY, SEPTEMBER 9, 2002

10:30-13:30 REGISTRATION
IASTED Staff: Nadia Hamza (Canada)
Room: Alboran Foyer

13:30-14:00 WELCOME ADDRESS
Presenter: C.E. Palau Salvador (Spain)
Room: Alboran I

14:00 – TUTORIAL – MULTIMEDIA COMMUNICATION SYSTEMS: TECHNIQUES, STANDARDS, AND NETWORKS
Presenters: Z. Bojkovic and D. Milovanovic (Yugoslavia)
Room: Alboran IV

The objective of this Tutorial is to provide a comprehensive description of the concepts and potential applications of multimedia communications. This Tutorial consists of six parts:

Part 1 describes the concept of multimedia communication modeling. After that, user and network requirements are discussed, together with packet transfer concept.

Part 2 reviews a recent trend in multimedia research to exploit the audio-visual interaction and to build the link between audio and video processing.

Part 3 is devoted to multimedia processing in communication. Digital media and signal processing elements are presented and analyzed. Next, we describe a general framework for image copyright protection through digital watermarking. The key attributes of neural processing essential to intelligent multimedia processing are also reviewed. Finally, this section concludes with recent large-scale-integration programmable processors designed for multimedia processing, such as real-time compression and decompression of audio and video, as well as the generation of computer graphics.

Part 4 deals with the issues concerning distributed multimedia systems. An overview is given of the main features, resource management, networking and multimedia operating systems. Next, applications such as interactive television, telecooperation, and hypermedia are discussed.

Part 5 focuses on multimedia communication standards, with a focus on MPEG-1, MPEG-2, MPEG-3, MPEG-4 VTC and JPEG-2000, MPEG-7, MPEG-21, ITU-T, and Internet standards.

Part 6 concentrates on multimedia communication over networks. After an introductory speech concerning packet audio-video in the network environment, the concept of video transport over generic networks is explored. This is followed by multimedia over IP networks, including video transmission, traffic specification for MPEG video transmission on the Internet, and bandwidth allocation mechanisms. The concepts of Internet access networks are presented and illustrated. Special issues relating to multimedia over wireless such as wireless broadband communication for multimedia audiovisual solutions, mobile and broadcasting networks, as well as digital TV infrastructure for interactive multimedia services are discussed.

Prof. Zoran S. Bojkovic received the Dipl.Ing, M.Sc and Ph.D degree, all in electrical engineering, from the University of Belgrade in 1964, 1974, and 1978, respectively. Since 1969 he has been with the University of Belgrade, where he is currently a Professor of Electrical Engineering and Chief of the Postal and Communication Department (Faculty of Transport and Traffic Engineering). He is also with the Faculty of Electrical Engineering. He has been a Visiting Professor at several universities in North America, Europe, and Asia. Prof. Bojkovic is also an active reviewer and a member of scientific committees of numerous journals and conferences, and serves as a chairman for international conferences, symposiums, workshops and panel discussions. He is a member of IEEE, EURASIP, the IASTED Technical Committee on Image Processing, and the Research Center for Communication and Signal Processing. He has conducted and participated in many scientific and industrial communication projects. Prof. Bojkovic has published more than 260 invited, regular, and tutorial papers in international books, journals, and conference proceedings, in addition to five monographs and ten textbooks. He is the co-author of the books Packet Video Communications over ATM Networks (Prentice-Hall, 2000) and Multimedia Communication Systems (Prentice-Hall, 2002).

Mr. Dragorad A. Milovanovi received the Dipl. Electr. Eng. and Master of Science degrees from the University of Belgrade in 1987 and 1991, respectively. From 1987 to 1991 he was a Research Assistant in the Department of Electrical Engineering, where his research interests included analysis and design of digital communications systems. He has been working as R&D engineer for DSP software development in the digital television industry. He also serves as a consultant for developing standard-based and secure solutions for media coding, streaming, and distribution. He has participated in numerous scientific projects and published more than 150 papers in international journals and conference proceedings. Currently, he is about to complete work on his Ph.D. degree at The University of Belgrade, specializing in digital image/video processing for efficient transmission. He is the co-author of the book Multimedia Communication Systems (Prentice-Hall, 2002).

14:00 – SESSION 1 – CODING, EQUALIZATION, AND MODULATION IN TELECOMMUNICATION SYSTEMS
Chair: A.J. Al-Dweik (Israel)
Room: Alboran I

371-033
Sum Capacity of Signature Sequence Multisets Consisting of Two Orthogonal Sets with Unequal Power Constraints
F. Vanhaverbeke and M. Moeneclaey (Belgium)

371-018
Reducing the Peak Power and the Sensitivity to Carrier Offsets Frequency in Noncoherent OFDM-ASK Systems
A.J. Al-Dweik (Israel) and F. Xiong (USA)

371-335
Non-Data-Aided Carrier Synchronization in Burst Mode QPSK Transmission
E. Arias de Reyna Domínguez and J.I. Acha Catalina (Spain)

371-046
Uplink and Downlink MC-DS-CDMA Sensitivity to Static Clock Frequency Offsets
H. Steendam and M. Moeneclaey (Belgium)

371-061
Low-Complexity Chase-like Decoding
G. Aricò (Italy) and J.H. Weber (The Netherlands)

371-067
Design Rules for Adaptive Turbo Equalization in Fast-fading Channels
M.J.M. Peacock, I.B. Collings (Australia), and I. Land (Germany)

14:00 – SESSION 2 – DATA NETWORKS I
Chairs: TBA
Room: Mediterraneo III

371-108
Performance Comparisons between MPLS Multicast and IP Multicast using Fair Share Policy and Priority Buffers
A. Al Wehaibi, A. Agarwal, M. Kadoch, and A. El Hakeem (Canada)

371-011
Simulation of a Reliable Client-Server System for Semi-Elastic Flows
M. Postigo-Boix, J. Garcia-Haro, and M. Aguilar-Igartua (Spain)

371-316
Interworking between MMS and Streaming
M-E. Mostafa (Finland)

371-050
A Survey of Multicast Routing Algorithms and Protocols
Q. Wang, G. King, and J. Vincent (UK)

371-053
Multicasting Connector Architecture for Component-Based Distributed Communication Applications
S.I. Ahamed (USA)

371-332
Integration of CIF with ATM
D. Meziat, A. García, and G. López (Spain)

371-030
Improving Strict QoS Provision on the Internet with MPLS Traffic Engineering Differentiated Service Features
F. Palmieri (Italy)

371-319
Enhanced Applications of an ISDN-based Tele-Working Platform
P. Sotiriades, G.P.-K. Economou, and D. Lymberopoulos (Greece)

371-323
Two-Level Renegotiated Constant Bit Rate Algorithm (R-CBR) for Stored Video Services over QOS Networks
J.J. Alins, J.R. Pegueroles, J. Mata, and L.J. de la Cruz (Spain)

15:30-16:00   COFFEE BREAK
Room: Alboran Foyer

16:00 – TUTORIAL AND SESSIONS 1 AND 2 CONTINUED

17:45 – OPTIONAL TOUR – MIJAS VILLAGE
Cost: USD $55 (tickets must be purchased in advance)
Meeting Place: Hotel Torrequebrada Main Lobby

The village of Mijas is perched high above the Fuengirola and Mijas coast, and is surrounded by heavily wooded mountains. Its cobbled streets, stunning views, and warm Spanish hospitality make this typical Andalucian village a charming place to visit. The history of Mijas dates back to the 9th Century when the Romans made the village an important fortress.

Among the little whitewashed houses and narrow, winding streets of Mijas lie a host of bars, restaurants, and shops, as well as two pretty churches and the most stunning views along the coast. The entire length of the main street is lined with artisan and gift shops. From the natural balcony behind the church, participants will have an unforgettable view of the Mediterranean Sea, and possibly across the Rock of Gibraltar to Africa. After a guided tour of the village, delegates will have time to explore Mijas on their own before returning to the hotel.

TUESDAY, SEPTEMBER 10, 2002

09:00 – SESSION 3 – MOBILE IP
Chair:K.-H. Lee (Korea)
Room: Alboran I

371-040
A Mobile Explicit Multicast in DiffServ Environment
J-H. Bae, U.-S. Jeon, K-H. Lee, and H.K. Kim (Korea)

371-027
A Study on Characteristics of Ad Hoc Network
Applications
M. Hayashi and C. Bonnet (France)

371-320
Mobility and Network Management in Ad Hoc Networks
J. Costa-Requena, R. Kantola, and N. Beijar (Finland)

371-013
An Evaluation on Fault-Tolerant Multicasting Schemes in
Multistage Interconnection Networks
H. Masuyama, Y. Sakono, and T. Kawamura (Japan)

371-094
A Hybrid Protocol for Broadcast Storm Problem in
Mobile Ad Hoc Network
D. Kim (USA) and J-C. Cano (Spain)

371-001
A High-speed Multi-layer Lookup for Policy Based
Packet Classification using TCAM
B.-C. Choi, D.-Y. Kwak, and J.-T. Lee (Korea)

371-097
Study of the Throughput of Wireless Home Automation
Network Using the Encapsulation of Two Medium
Access Methods
N. Hakem and M. Misson (France)

371-066
Traffic Analysis of IP Telephony in Wireless Cellular
Networks
T. Janevski and B. Spasenovski (Macedonia)

371-114
Performance Comparison of the AODV and DSDV
Routing Protocols in Mobile Ad Hoc Networks
R. Khalaf, A. El-Haj-Mahmoud, and A. Kayssi (Lebanon)

09:00 – SESSION 4 – CDMA SYSTEMS
*Chair: M. Nakamura (Japan) and I. Barbancho- Perez
(Spain)*
Room: Mediterraneo III

371-112
Adaptive Array Antenna based on Radial Basis Function
Network as a Multiuser Detection for WCDMA System
C-J. Ahn and I. Sasase (Japan)

371-314
Intersymbol Multiuser Detection for Asynchronous
CDMA in Multipath
G. Zhang and G. Bi (Singapore)

371-064
Influence of Imperfect Power Control on the Optimal
Performance of OCDMA/OCDMA
F. Vanhaverbeke and M. Moeneclaey (Belgium)

371-086
Inter-cell Interference Caused by Asynchronous Cells in
Approximately Synchronized CDMA Systems
*M. Nakamura, H. Torii, S. Wakoh, and N. Suehiro
(Japan)*

371-087
Spreading Method to Improve Interference Tolerance for
Power Efficient APSK Signal
N. Izuka and Y. Daido (Japan)

371-092
Estimation of the Maximum Number of Users in UMTS-
FDD Uplink
*A.M. Barbancho, I. Barbancho, L.J. Tardón, and
J.T. Emtrambasaguas (Spain)*

371-100
An Information Transmission Method using Kronecker
Product
N. Suehiro, C. Han, T. Imoto, and N. Kuroyanagi (Japan)

371-057
Optimal Two-Stage Partial PIC Receivers for Aperiodic
Spreading Codes
Y.-T. Hsieh and W.-R. Wu (Taiwan)

371-101
Very Efficient Wireless Frequency Usage System with
Multipath Estimation in Correlation Domain
C. Han, N. Suehiro, T. Imoto, and N. Kuroyanagi (Japan)

371-049
Implementation Overview of a WCDMA Transceiver on
an FPGA based Software Radio Platform
S.P. Korah and S.A. Mcdonald (South Africa)

11:00-11:30   COFFEE BREAK
Room: Alboran Foyer

11:30 – SESSIONS 3 AND 4 CONTINUED

14:00 – SESSION 5 – SIGNAL PROCESSING FOR TELECOMMUNICATIONS
Chair:M. Abdel-Hafez (UAE)
Room: Alboran I

371-333
Study And Modeling Of Noise On The Medium Voltage Part
Of The Electrical Power Distribution Network
F.J. Simois and J.I. Acha (Spain)

371-048
Performance of a Sequence Division Multiple Access Scheme based on Chaotic Waveforms
F. Chiaraluce, E. Gambi, and P. Pierleoni(Italy)

371-062
Automated Troubleshooting of Mobile Networks using Bayesian Networks
R. Barco, R. Guerrero, G. Hylander (Spain), L. Nielsen (Denmark), M. Partanen (Spain), and S. Patel (UK)

371-103
Sorting in the V-Blast Algorithm and Loading
T. Vencel, C. Windpassinger, and R.F.H. Fischer (Germany)

371-329
Multiple Fault Identification using Neural Models for Telecommunication Networks
A. Yilmaz and İ. Kılınç (Turkey)

371-337
Performance of Trellis Coded Hybrid ARQ Schemes over ISI Channels
A.M. Al-Sanie (Saudi Arabia)

371-119
SDL Pattern-based Design of SIP-T Protocol in a Softswitch System
C.-S. Keum, Y.I. Choi, H.-J. Park, and B-S. Lee (Korea)

371-084
Co-Channel Interference Probability of Cellular Mobile Radio in Generalized Fading and Correlated Shadowing Environment
M. Abdel-Hafez (UAE)

14:00 – SESSION 6 – OPTICAL COMMUNICATIONS
Chairs: H. Sotobayashi (USA) and P. Pavon-Mariño (Spain)
Room: Mediterraneo III

371-118
A Framework for Randomized Optimization Algorithms and its Application to the Wavelength Assignment Problem
D.A. Schupke and C. Kühnel (Germany)

371-105
Hierarchical Hybrid OTDM/WDM Network based on Ultrafast Photonic Processing
H. Sotobayashi (USA/Japan), W. Chujo and T. Ozeki (Japan)

371-331
Scaling Strategies Survey for Envisaged Backbone Optical Packet Switches
P. Pavon-Mariño, J. Garcia-Haro, and J. Malgosa-Sanahuja (Spain)

371-304
Assessment of Traffic Performance in Wide-Area WDM Optical Networks with Small Diameter
R.M.F. Coelho, J.J.P.C. Rodrigues, and M.M. Freire (Portugal)

371-310
Direct Frequency Modulation of an Injection Locked Semiconductor Laser
M.K. Haldar and F.V.C. Mendis (Singapore)

371-325
Traffic Analysis of Data Transmission on Hybrid Fiber Coax Network
M. García, X.G. Pañeda, D.F. García, V.G. García, and R. Bonis (Spain)

371-099
Comparison of Methods for Modeling the Next Generation Multimode Fiber
A. Risteski, B. Spasemovski (Macedonia), and P. Pepeljugoski (USA)

16:00-16:30   COFFEE BREAK
Room: Alboran Foyer

16:30 – SESSIONS 5 AND 6 CONTINUED

19:45   DINNER BANQUET
Room: Garden Area

WEDNESDAY, SEPTEMBER 11, 2002

09:00 – SESSION 7 – DATA NETWORKS II
Chair: C.-M. Huang (Taiwan)
Room: Alboran I

371-093
Traffic Engineering Communication Protocols for Best Effort Traffic
B.G. Koehler, D.A. Barlow, and H.L. Owen (USA)

371-315
A Proposal of Traffic Shaping to Improve Policing Functions in Communication Networks
F.D. Trujillo Aguilera, E. Casilari Pérez, A. Díaz Estrella, and F. Sandoval (Spain)

371-089
A Differentiated Multicast Controlling Mechanism for Layered Video Delivering on the Best-Effort-Based Networks
C.-M. Huang, Y.-T. Yu, and W.-C. Tseng (Taiwan)

371-091
Proteo: A New Approach to Network-On-Chip
D. Sigüenza-Tortosa and J. Nurmi (Finland)

371-339
On the Effect of Packet Losses in HTTP Traffic Self-Similarity
J.M. Cano-García, E. González-Parada, J.A. Aguilar-González, A. Reyes-Lecuona, and A. Díaz-Estrella (Spain)

09:00 – SESSION 8 – PUBLIC WIRELESS NETWORKS
Chair: E. Garcia-Palacios (Ireland)
Room: Mediterraneo III

371-008
Adaptive SDMA with Repeater in UMTS Urban Environment
M.N. Patwary, P. Rapajic, and I. Oppermann (Australia)

371-321
Applicability of Traffic Engineered Routing in Mobile Data Networks
S. Recker, W. Geisselhardt, and I. Wolff (Germany)

371-110
VNC-based Access to Remote Computers from Cellular Phones
B. Shizuki, M. Nakasu, and J. Tanaka (Japan)

371-082
Downlink Packet Data Scheduling for Wireless WCDMA Systems
F. Beaulieu and S. Aïssa (Canada)

371-051
Interference Control Technics in Mixed Networks: Downlink Power Control for GPRS
R. Rodríguez, J. Martínez, and J. Romero (Spain)

371-041
Assessing Impact of Static Selective Partitioning Bandwidth Reservation Policy in Wireless Multimedia Networks
E. Garcia Palacios and A. Marshall (UK)

10:00-10:30   COFFEE BREAK
Room: Alboran Foyer

10:30 – SESSIONS 7 AND 8 CONTINUED

14:00 – SESSION 9 – SPECIAL SESSION ON SECURITY AND MANAGEMENT IN DATA NETWORKS AND MOBILE COMMUNICATIONS
Chair: A. Kayssi (Lebanon)
Room: Alboran I

371-350
Complementary Mechanisms for Secure Mobile Electronic Commerce
D. Ponce, M. Soriano, S. Montardit, and F. Barceló (Spain)

371-351
Certificate Revocation Policies for Wireless Communications
J.L. Muñoz and J. Forné (Spain)

371-060
TINA Services: A Look at the Primary Application Areas
C.L. Choo, R. Logeswaran, L.S. Wei, and I. Chai (Malaysia)

371-353
Cryptanalysis Of Lin-Jan Anonymous Channel Protocol For Wireless Communications
A.M. Barbancho and A. Peinado (Spain)

371-113
Securing Mobile Banking Transactions using WAP Application-Layer Security
S. Itani and A. Kayssi (Lebanon)

371-352
An Improved Cryptanalysis of the A5/2 Algorithm for Mobile Communications¤
S. Petrović and A. Fúster-Sabater (Spain)

14:00 – SESSION 10 – WIRELESS NETWORKS I
Chair: F.H. Kashani (Iran)
Room: Mediterraneo III

371-117
Assessment of a New Event Based Reporting Method and Comparison with Other Measurement Reporting Methods Proposed by the Standard 3GPPTS 25.423
J.G. Wangüemert Pérez, A. Tölli, and P. Hakalin (Spain)

371-009
Quantitative Characterization of Content-based FEC Techniques on Interactive-Audio over Wireless Networks
J.M. González (USA)

371-322
An Approach to Design Circularly-Polarized Radiating
Elements for Mobile Terminal at K-Band
S. Dragaš and L. González (Spain)

371-109
The Influence of Propagation Model and Sectorization
over WCDMA Capacity
N. Cardonna (Spain) and A. Navarro (Colombia)

371-031
Slot Coupled Ridged Circular Disk Microstrip Antenna
Element
F.H. Kashani, M. Omidi, and A.R. Mallahzadeh (Iran)

15:00-15:30   COFFEE BREAK
Room: Alboran Foyer

15:30 – SESSIONS 9 AND 10 CONTINUED

THURSDAY, SEPTEMBER 12, 2002

**09:00 – SESSION 11 – CODING, EQUALIZATION,
AND MODULATION IN TELECOMMUNICATION
SYSTEMS II**
Chairs: C. Benavente (Spain) and M. El-Tarhuni (UAE)
Room: Alboran I

371-106
Bit-Loading Algorithm for DMT Broadband Indoor Power
Line Communications
*J.L. Cortés, L. Díez, F.J. Cañete, and J.T.
Entrambasaguas (Spain)*

371-039
MMSE PN Code Tracking in Frequency Selective Fading
Channels
M. El-Tarhuni (UAE) and A. Ghrayeb (Canada)

371-044
Bit Synchronisation and Detection in CPM Digital
Receivers using Neural Networks
C. Benavente and R. García (Spain)

371-056
Blind Equalization using a Stop-and-Go Decision-
directed Least-squares Algorithm
Y.-H. Lin, and J.-T. Yuan (Taiwan)

371-002
Two New Approaches for QAM Constellation
Classification in Multipath
H. Roufarshbaf and H. Amindavar (Iran)

09:00 – SESSION 12 – WIRELESS NETWORKS II
Chair: E. Garcia Palacios (Ireland)
Room: Mediterraneo III

371-095
Frequency Offset Estimation via the Sample
Autocorrelation Function in Flat Fading Channels
M. Rezki, L. Sabel, and I. Kale (UK)

371-116
Deadline-based Round-Robin Scheduling Discipline for
Guaranteed Performance Service in ATM Networks
J. Martyna (Poland)

371-047
A new Approach for Delivering Non-Standardized
Assistance Data in E-OTD/A-GPS Hybrid Location
Systems
I. Martin-Escalona, F. Barcelo, and J. Paradells (Spain)

371-029
Stochastic Estimator Learning Automation based
Approach in Reducing Congestion Level in ATM
Network
F.J. Ogwu (Botswana) and G.A. Aderounmu (Nigeria)

10:00-10:30   COFFEE BREAK
Room: Alboran Foyer

10:30 – SESSIONS 11 AND 12 CONTINUED

FRIDAY, SEPTEMBER 13, 2002

**08:00-19:45   OPTIONAL TOUR – CITY OF
GRANADA AND THE ALHAMBRA PALACE**
Cost: USD $80 (tickets must be purchased in advance)
Meeting Place: Hotel Torrequebrada Main Lobby

A visit to Southern Spain would not be complete without
a trip to the world-famous city of Granada, which is set
against the mountain backdrop of the Sierra Nevada.
Granada was the crown jewel of the Arab empire in
Spain and the last to be conquered by the Catholic
Kings, Isabella and Ferdinand. The drive to Granada is
resplendent with a multi-coloured and fascinating
countryside from mountains to plains to vast properties
of olive groves.

Once in Granada, delegates have some free time to visit
the markets. A visit to the Royal Chapel in which
Fernando III and Isabel, the Christian conquerors of
Granada, are buried, is included.

Finally, participants will visit the Alhambra Palace, one of
the world's most important and well-recognized

accomplishments of Islamic art and architecture. This palace, with its elaborate patios and gardens, is among the most important attractions of Spain. The Alcazaba is the Alhambra's Muslim fortress dating from the 11th century, with great views of the city from the tops of its towers. The Palacio Nazaries is the centerpiece of the Alhambra, and is noted for the intricacy of its stonework. Finally, there is the Generalife - the summer palace of the sultans, set in the soul-soothing Alhambra gardens.