

Edited by Peter Droege

# Intelligent Environments

SECOND EDITION

Advanced Systems for a Healthy Planet



# Intelligent Environments

**George A. Tsihrintzis, Maria  
Virvou, Lakhmi C. Jain**



## **Intelligent Environments:**

**Intelligent Environments** Dorothy Monekosso, Yoshinori Kuno, Paolo Remagnino, 2008-09-18 Relatively new research fields such as ambient intelligence intelligent environments ubiquitous computing and wearable devices have emerged in recent years These fields are related by a common theme making use of novel technologies to enhance user experience by providing user centric intelligent environments moving computers from the desktop and making computing available anywhere and anytime It must be said that the concept of intelligent environments is not new and began with home automation The choice of name for the field varies somewhat from continent to continent in the English speaking world In general intelligent space is synonymous to intelligent environments or smart spaces of which smart homes is a sub field In this collection the terms intelligent environments and ambient intelligence are used interchangeably throughout Such environments are made possible by permeating living spaces with intelligent technology that enhances quality of life In particular advances in technologies such as miniaturized sensors advances in communication and networking technology including high bandwidth wireless devices and the reduction in power consumption have made possible the concept of intelligent environments Environments such as a home an office a shopping mall and a travel port utilize data provided by users to adapt the environment to meet the user's needs and improve human machine interactions The user information is gathered either via wearable devices or by pervasive sensors or a combination of both Intelligent environments brings together a number of research fields from computer science such as artificial intelligence computer vision machine learning and robotics as well as engineering and architecture

**Intelligent Environments** P. Droege, 1997-03-20 The environment as modified and created by people is largely about the use of information its generation and exchange How do recent innovations in the technologies of information management and communication affect our use of space and place and the way we perceive and think about our surroundings This volume provides an international exploratory forum for the complex phenomenon of new information and communication technology as it permeates and transforms our physical world and our relation to it the architectural definition of our surrounding geographical space urban form and immediate habitats This book is a reader an attempt at registering disciplinary changes in context at tracing subtexts for which most mainstream disciplines have no established language The project is to give voice to an emerging meta discipline that has its logic across the specializations A wide range of professionals and academics report findings views and ideas Together they describe the architecture of a postmodern paradigm how swiftly mutating the proliferating technology applications have begun to interact with the construction and reading of physical space in architecture economics geography history planning social sciences transport visual art but also in the newer domains that have joined this spectrum through the very nature of their impacts information technology and telecommunications The space navigated in this volume is vast both in physical terms and in its virtual and analogous form It ranges from the space that immediately encompasses or is simulated to encompass the human body as in

buildings and virtual tectonics to that of towns and regions We stay clear of molecular scale space and of dimensions that are larger than earth

*Intelligent Environments 2019* A. Muñoz, S. Ouhbi, W. Minker, 2019-08-06 Intelligent Environments IEs aim to empower users by enriching their experience raising their awareness and enhancing their management of their surroundings The term IE is used to describe the physical spaces where ICT and pervasive technologies are used to achieve specific objectives for the user and or the environment The growing IE community from academia to practitioners is working on the materialization of IEs driven by the latest technological developments and innovative ideas This book presents the proceedings of the workshops held in conjunction with the 15th International Conference on Intelligent Environments IE 19 Rabat Morocco 24 27 June 2019 The conference focused on the development of advanced intelligent environments as well as newly emerging and rapidly evolving topics The workshops included here emphasize multi disciplinary and transversal aspects of IEs as well as cutting edge topics the 8th International Workshop on the Reliability of Intelligent Environments WORIE 19 9th International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 19 5th Symposium on Future Intelligent Educational Environments and Learning SOFIEE 19 3rd International Workshop on Intelligent Systems for Agriculture Production and Environment Protection ISAPEP 19 3rd International Workshop on Legal Issues in Intelligent Environments LIIE 19 1st International Workshop on Intelligent Environments and Buildings IEB 19 3rd International Workshop on Citizen Centric Smart Cities Services CCSCS 19 and the 4th International Workshop on Smart Sensing Systems IWSSS 19 The book will be of interest to all those whose work involves the design or application of Intelligent Environments

*Intelligent Environments 2021* E. Bashir, M. Luštrek, 2021-07 Intelligent environments IE combine physical spaces with ICT and pervasive technology to improve a user s awareness of their surroundings empower them to carry out tasks enrich their experience and enhance their ability to manage such environments A growing community from academia to practitioners is working to bring intelligent environments to life This work is driven by the innovative ideas and technological progress that are making the sensors and computing devices required for intelligent environments more affordable and energy efficient This book presents papers from Workshops held during the 17th International Conference on Intelligent Environments IE2021 The conference was due to take place in Dubai UAE but was held as a virtual event from 21 to 24 June 2021 due to the restrictions associated with the Covid 19 pandemic Included here are the proceedings of the 10th International Workshop on the Reliability of Intelligent Environments WoRIE 21 the 3rd International Workshop on Intelligent Environments and Buildings IEB 21 the 1st International Workshop on Self Learning in Intelligent Environments SeLIE 21 and the 1st International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics ALLEGET 21 The contributions to these workshops reflect the multi disciplinary and transversal aspects of intelligent environments and cover the latest research and development in intelligent environments and related areas focusing on pushing the boundaries and contributing to the establishment of intelligent environments in the real world Offering a state of the art overview of

current progress the book will be of particular interest to all those working in the field of intelligent environments

Intelligent Environments 2020 C.A. Iglesias,J.I. Moreno Novella,A. Ricci,2020-08-21 Intelligent Environments IEs aims to empower users by enriching their experience raising their awareness and enhancing their management of their surroundings The term IE is used to describe the physical spaces where ICT and pervasive technologies are used to achieve specific objectives for the user and or the environment The growing IE community from academia and practitioners is working on the materialization of IEs driven by the latest technological developments and innovative ideas This book presents the proceedings of the workshops held in conjunction with the 16th International Conference on Intelligent Environments IE2020 Madrid Spain 20 23 July 2020 The conference focused on the development of advance intelligent environments as well as newly emerging and rapidly evolving topics The workshops included here emphasize multi disciplinary and transverse aspects of IE as well as cutting edge topics 10th International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 20 9th International Workshop on the Reliability of Intelligent Environments WoRIE2020 4th International Workshop on Legal Issues in Intelligent Environments LIIE 20 4th International Workshop on Intelligent Systems for Agriculture Production and Environment Protection ISAPEP 20 4th International Workshop on Citizen Centric Smart Cities Services CCSCS 20 2nd International Workshop on Intelligent Environments and Buildings IEB 20 1st International Workshop on Research on Smart Grids and Related Applications SGRA 20 1st International Workshop on Open and Crowdsourced Location Data ISOCLoD 20 1st International Workshop on Social Media Analysis for Intelligent Environment SMAIE 20 The proceedings contain contributions reflecting the latest research developments in IEs and related areas focusing on stretching the borders of the current state of the art and contributing to an ever increasing establishment of IEs in the real world It will be of interest to all those whose work involves the design or application of Intelligent Environments

Intelligent Environments 2017 C. Analide,P. Kim,2017-08-18 The term Intelligent Environments IEs refers to the physical spaces in which IT and other pervasive computing technologies are integrated and used to achieve specific goals for the user the environment or both The ultimate objectives of IEs are enriching user experience enabling better management and increasing user awareness of that environment This book presents the proceedings of the 13th International Conference on Intelligent Environments held in Seoul Korea in August 2017 The conference provides a multidisciplinary collaborative forum for researchers and practitioners from computer science electronic engineering building architecture art and design sociology government and education to present theoretical and practical results related to the development and applications of Intelligent Environments IE 17 focuses on the development of advanced Intelligent Environments as well as other newly emerging and rapidly evolving topics The book also includes the proceedings of the following associated workshops held during the first 2 days of the conference which emphasize the multi disciplinary and transversal aspects of IEs the 6th International Workshop on the Reliability of Intelligent Environments WoRIE 17 the 1st

International Workshop on Intelligent Systems for Agricultural Production and Environmental Protection ISAPEP 17 the 1st Workshop on Citizen Centric Smart Cities Solutions CCSCS 17 and the 1st International Workshop on Advanced Multiple Access in Mobile Telecommunications AMAMT 17 Providing a state of the art overview of the discipline this book will be of interest to professionals from a diversity of fields whose work involves the development or application of Intelligent Environments     Intelligent Environments 2009 V. Callaghan,A. Kameas,A. Reyes,2009-07-07 As computers are increasingly embedded into our everyday environments the objects therein become augmented with sensors processing and communication capabilities and novel interfaces The capability for objects to perceive the environment store and process data pursue goals reason about their intentions and coordinate actions in a holistic manner gives rise to the so called Intelligent Environment IE In such environments real space becomes augmented with digital content thus transcending the limits of nature and of human perception The result is a pervasive transparent infrastructure capable of recognizing responding and adapting to individuals in a seamless and unobtrusive way The realization of Intelligent Environments requires the convergence of different disciplines such as information and computer science building architecture material engineering artificial intelligence sociology art and design The 5th International Conference on Intelligent Environments IE 09 held at the Polytechnic University of Catalonia Castelldefels Barcelona Spain provides a multidisciplinary forum for researchers and engineers from across the world to present their latest research and to discuss future directions in the area of Intelligent Environments The IE 09 proceedings contain the complete conference program including full papers presented at special sessions and short papers from the doctoral colloquium and poster session In addition three thought provoking invited lectures on topics of current and future IE research are included     **Intelligent Environments 2016** P. Novais,S. Konomi,2016-10-12 The term Intelligent Environments IEs refers to physical spaces in which IT and other pervasive computing technologies are combined and used to achieve specific goals for the user the environment or both The ultimate objective of IEs is to enrich user experience improve management of the environment in question and increase user awareness This book presents the proceedings of the following workshops which formed part of the 12th International Conference on Intelligent Environments IE16 held in London UK in September 2016 the 5th International Workshop on Smart Offices and Other Workplaces SOOW 16 the 5th International Workshop on the Reliability of Intelligent Environments WoRIE 16 the 1st International Workshop on Legal Issues in Intelligent Environments LIIE 2016 the 2nd International Symposium on Future Intelligent Educational Environments and Learning SOFIEE 16 the 2nd International Workshop on Future Internet and Smart Networks FI the International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 2016 the International Workshop on Computation Sustainability Technologies and Applications CoSTA 2016 the Creative Science 2016 CS 16 and Cloud of Things 2016 CoT 16 the Workshop on Wireless Body Area Networks for Personal Monitoring in Intelligent Environments WBAN PMIE and the Physical Computing Workshop The workshops focused

on the development of advanced intelligent environments as well as newly emerging and rapidly evolving topics emphasizing the multi disciplinary and transversal aspects of IEs as well as cutting edge topics The book will be of interest to all those whose work involves them in the use of intelligent environments Next Generation Intelligent Environments Stefan Ultes, Florian Nothdurft, Tobias Heinroth, Wolfgang Minker, 2015-11-30 This book covers key topics in the field of intelligent ambient adaptive systems It focuses on the results worked out within the framework of the ATRACO Adaptive and TRusted Ambient eCOlogies project The theoretical background the developed prototypes and the evaluated results form a fertile ground useful for the broad intelligent environments scientific community as well as for industrial interest groups The new edition provides Chapter authors comment on their work on ATRACO with final remarks as viewed in retrospective Each chapter has been updated with follow up work emerging from ATRACO An extensive introduction to state of the art statistical dialog management for intelligent environments Approaches are introduced on how Trust is reflected during the dialog with the system Workshop Proceedings of the 19th International Conference on Intelligent Environments (IE2023) G.

Bekaroo, S. Ben Allouch, M. Mecella, 2023-07-07 The term intelligent environment IE refers to a physical space that is enhanced by digital technologies Such environments are designed to improve the quality of life of the people who live or work in them and are equipped with technologies such as sensing systems and artificial intelligence which can detect changes in the environment anticipate user requirements and provide personalized services and experiences to users This book presents papers from Workshops held during the first two days of IE2023 the 19th International Conference on Intelligent Environments held in Mauritius between 27 and 30 June 2023 with an online participation available for those who could not travel to the island The papers are grouped under the headings of the various workshops the 12th International Workshop on the Reliability of Intelligent Environments WoRIE 23 the 3rd International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics ALLEGET 23 the 3rd International Workshop on Self Learning in Intelligent Environments SeLIE 23 the 2nd International Workshop on Edge AI for Smart Agriculture EAISA 23 and the 12th International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 2023 and represent a diverse array of cutting edge research reflective of this exciting area of study The book offers an overview of the latest and most exciting developments in intelligent environments research and will be of interest to all those working in the field

Multimedia Services in Intelligent Environments George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain, 2013-05-16 Multimedia services are now commonly used in various activities in the daily lives of humans Related application areas include services that allow access to large depositories of information digital libraries e learning and e education e government and e governance e commerce and e auctions e entertainment e health and e medicine and e legal services as well as their mobile counterparts i e m services Despite the tremendous growth of multimedia services over the recent years there is an increasing demand for their further development This demand is driven by the ever increasing desire of society

for easy accessibility to information in friendly personalized and adaptive environments In this book at hand we examine recent Recommendation Services Recommendation services appear in the mobile environment medicine biology tourism education and so on The book includes ten chapters which present various recently developed recommendation services This research book is directed to professors researchers application engineers and students of all disciplines who are interested in learning more about recommendation services advancing the corresponding state of the art and developing innovative recommendation services

**Workshop Proceedings of the 9th International Conference on Intelligent Environments** J.A. Botía,D. Charitos,2013-07-26 Intelligent Environments IE play an increasingly important role in many areas of our lives including education healthcare and the domestic environment The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user the environment or both This book presents the proceedings of the workshops of the 9th International Conference on Intelligent Environments IE 13 held in Athens Greece in July 2013 The workshops which were presented in the context of this conference range from regular lectures to practical sessions They provide a forum for scientists researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field Topics covered in the workshops include artificial intelligence techniques for ambient intelligence applications of affective computing in intelligent environments smart offices and other workplaces intelligent environment technology in education for creative learning museums as intelligent environments the application of intelligent environment technologies in the urban context for creating more sociable intelligent cities and for constructing urban intelligence IE can enrich user experience better manage the environment s resources and increase user awareness of that environment This book will be of interest to all those whose work involves the application of intelligent environments

**Human-Computer Interaction in Intelligent Environments** Constantine Stephanidis,Gavriel Salvendy,2024-08-29 This book offers readers a holistic understanding of intelligent environments encompassing their definition design interaction paradigms the role of Artificial Intelligence AI and the associated broader philosophical and procedural aspects Elaborates on AI research and the creation of intelligent environments Zooms in on designing interactions with the IoT intelligent agents and robots Discusses overarching topics for the design of intelligent environments including user interface adaptation design for all sustainability cybersecurity privacy and trust Provides insights into the intricacies of various intelligent environment contexts such as in automotive urban interfaces smart cities and beyond This book has been written for individuals interested in Human Computer Interaction research and applications

*Next Generation Intelligent Environments* Tobias Heinroth,Wolfgang Minker,2011-08-28 Intelligent environments represent an emerging topic in research Next Generation Intelligent Environments Ambient Adaptive Systems will cover all key topics in the field of intelligent ambient adaptive systems It focuses on the results worked out within the framework of the ATRACO Adaptive and TRusted Ambient eCOlogies project The theoretical background the



developed prototypes and the evaluated results form a fertile ground useful for the broad intelligent environments scientific community as well as for industrial interest groups. Features of the book include: A unique and original collection of chapters on intelligent ambient adaptive systems; Broad coverage of the field of intelligent environments research and evaluation as well as topics such as adaptation within activity spheres; Developed prototypes as examples for readers; Computer scientists, engineers and others who work in the area of ambient environments will find the edition interesting and useful to their own work. In addition, graduate students and Ph.D. students specializing in the area of intelligent environments may also use this book to get a concrete idea of the major issues to consider when developing intelligent environments in practice.

*Workshop Proceedings of the 8th International Conference on Intelligent Environments* J.A. Botía, H. Schmidtke, T. Nakashima, 2012-06-16. Intelligent environments (IE) play an increasingly important role in many areas of our lives including education, healthcare and the domestic environment. The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user, the environment or both. This book presents the proceedings of the workshops of the 8th International Conference on Intelligent Environments (IE 12) held in Guanajuato, Mexico, in June 2012. The workshops, which make up the conference, range from regular lectures to practical sessions. They provide a forum for scientists, researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field. Topics covered in the workshops include intelligent environments supporting healthcare and well-being, artificial intelligence techniques for ambient intelligence, large-scale intelligent environments, intelligent domestic robots, intelligent environment technology in education, multimodal interfaces applied in skills transfer, healthcare and rehabilitation, the reliability of intelligent environments and improving industrial automation using intelligent environments. IE can enrich user experience, better manage the environment's resources and increase user awareness of that environment. This book will be of interest to all those whose work involves the application of intelligent environments. **Workshop**

**Proceedings of the 10th International Conference on Intelligent Environments** J.C. Augusto, T. Zhang, 2014-07-03. Advances in the engineering of sensing and acting capabilities distributed in a wide range of specialized devices nowadays provide an opportunity for the fundamental advances in computer science made in the past few decades to impact our daily lives. Sensors and actuators deployed in a physical space—a house, an office, a classroom, a car, a street—facilitate a link between an automated decision-making system and a technologically enriched space. The Intelligent Environment, a digital environment that supports people in their daily lives, is a very active area of research which is attracting an increasing number of professionals both in academia and industry worldwide. The prestigious 10th International Conference on Intelligent Environments (IE 14) is focused on the development of advanced Intelligent Environments and stimulates the discussion on several specific topics that are crucial to the future of the area. This volume is the combined proceedings of the workshops co-located with IE 14: 9th Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI 14), 2nd International

Workshop on Applications of Affective Computing in Intelligent Environments ACIE 14 3rd edition of the Workshop on Future Intelligent Educational Environments WOFIEE 14 2nd Workshop on Cloud of Things 2014 CoT 14 3rd International Workshop on the Reliability of Intelligent Environments WoRIE 2014 4th Workshop on Creative Science 2014 CS 14 and 1st Workshop on Hyperrealistic Intelligent Environments 2014 HyperRealitIE 14 This book offers an overview of the latest developments in key areas of the development of Intelligent Environments

**Workshops Proceedings of the 5th International Conference on Intelligent Environments** Michael Schneider, 2009 The 5th International Conference on Intelligent Environments IE 09 held at the Polytechnic University of Catalonia Castelldefels Barcelona Spain provides a multidisciplinary forum for researchers and engineers from across the world to present their latest research and to discuss future directions in the area of intelligent environments This volume forms the combined proceedings of five workshops held at the IE 09 Included are the proceedings of the Workshop on Digital Object Memories DOME 09 Workshop on RFID Technology Concepts Practices and Solutions RFID 09

**Workshop Proceedings of the 6th International Conference on Intelligent Environments** Ramón López-Cózar, H. Aghajan, 2010 This book presents the combined proceedings of three workshops which make up part of the 6th International Conference on Intelligent Environments The remarkable advances in computer sciences throughout the last few decades are already making an impact

*Workshop Proceedings of the 11th International Conference on Intelligent Environments* D. Preuveneers, 2015-07-06 With emerging trends such as the Internet of Things sensors and actuators are now deployed and connected everywhere to gather information and solve problems and such systems are expected to be trustworthy dependable and reliable under all circumstances But developing intelligent environments which have a degree of common sense is proving to be exceedingly complicated and we are probably still more than a decade away from sophisticated networked systems which exhibit human like thought and intelligent behavior This book presents the proceedings of four workshops and symposia the 4th International Workshop on Smart Offices and Other Workplaces SOOW 15 the 4th International Workshop on the Reliability of Intelligent Environments WoRIE 15 the Symposium on Future Intelligent Educational Environments and Learning 2015 SOFIEEe 15 and the 1st Immersive Learning Research Network Conference iLRN 15 These formed part of the 11th International Conference on Intelligent Environments held in Prague Czech Republic in July 2015 which focused on the development of advanced reliable intelligent environments as well as newly emerging and rapidly evolving topics This overview of and insight into the latest developments of active researchers in the field will be of interest to all those who follow developments in the world of intelligent environments

*Workshops at 18th International Conference on Intelligent Environments (IE2022)* H.H. Alvarez Valera, M. Luštrek, 2022-07-05 The term Intelligent Environments IEs refers to physical spaces in which information and communication technologies are interwoven with sensing technologies innovative user interfaces robotics and artificial intelligence to create interactive spaces which increase the awareness and enhance the experience of those occupying them The growing IE

community is rooted in academia but increasingly involves practitioners It explores the core ideas of IEs as well as the factors necessary to make them a reality such as energy efficiency the computational constraints of edge devices and privacy issues This book presents papers from Workshops held during the 18th International Conference on Intelligent Environments IE2022 held as a hybrid conference in Biarritz France from 20 to 23 June 2022 The conference is now recognized as a major annual venue in the field of IE It offers a truly international forum for the exchange of information and ideas and welcomes contributions from all technically active regions of the planet Included here are 35 papers from the 1st International Workshop on Sentiment Analysis and Emotion Recognition for Social Robots SENTIRobots 22 1st International Workshop on Edge AI for Smart Agriculture EAISA 22 2nd International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics ALLEGET 22 11th International Workshop on the Reliability of Intelligent Environments WoRIE 22 2nd International Workshop on Self Learning in Intelligent Environments SeLIE 22 5th Workshop on Citizen Centric Smart Cities Solutions CCSCS 22 11th International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 22 Exploring some of the latest research and developments in the field the book will be of interest to all those working with intelligent environments and its associated technologies

The Enthralling World of Kindle Books: A Comprehensive Guide Revealing the Advantages of Kindle Books: A Realm of Convenience and Flexibility E-book books, with their inherent mobility and ease of availability, have liberated readers from the constraints of physical books. Gone are the days of carrying bulky novels or meticulously searching for particular titles in bookstores. Kindle devices, stylish and lightweight, effortlessly store an wide library of books, allowing readers to immerse in their preferred reads anytime, everywhere. Whether traveling on a bustling train, lounging on a sun-kissed beach, or just cozying up in bed, E-book books provide an unparalleled level of convenience. A Literary World Unfolded: Exploring the Vast Array of E-book Intelligent Environments Intelligent Environments The E-book Store, a virtual treasure trove of literary gems, boasts an wide collection of books spanning diverse genres, catering to every readers preference and choice. From captivating fiction and mind-stimulating non-fiction to timeless classics and modern bestsellers, the E-book Store offers an exceptional abundance of titles to explore. Whether looking for escape through immersive tales of imagination and exploration, diving into the depths of past narratives, or expanding ones understanding with insightful works of scientific and philosophy, the E-book Store provides a gateway to a literary world brimming with limitless possibilities. A Transformative Force in the Bookish Landscape: The Enduring Influence of Kindle Books Intelligent Environments The advent of Kindle books has unquestionably reshaped the literary landscape, introducing a paradigm shift in the way books are released, disseminated, and consumed. Traditional publishing houses have embraced the digital revolution, adapting their approaches to accommodate the growing demand for e-books. This has led to a rise in the availability of E-book titles, ensuring that readers have access to a wide array of literary works at their fingers. Moreover, E-book books have democratized access to books, breaking down geographical barriers and providing readers worldwide with similar opportunities to engage with the written word. Irrespective of their location or socioeconomic background, individuals can now immerse themselves in the captivating world of books, fostering a global community of readers. Conclusion: Embracing the E-book Experience Intelligent Environments E-book books Intelligent Environments, with their inherent convenience, versatility, and vast array of titles, have certainly transformed the way we experience literature. They offer readers the liberty to explore the limitless realm of written expression, anytime, everywhere. As we continue to navigate the ever-evolving digital scene, Kindle books stand as testament to the enduring power of storytelling, ensuring that the joy of reading remains reachable to all.

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