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Topic Editor Susan Richards is an employee of Sanofi and owns stock in the corporation. Topic Editor Bernard Maillere declares economic support from pharmaceutical companies (Novartis, Sanofi, and UCB) in the frame of collaborations aiming to evaluate the recognition by human T cells of therapeutic proteins and antibodies. Offers an illustrated telling of the story of Ada Byron Lovelace, from her early creative fascination with mathematics and science and her devastating bout with measles, to the ground-breaking algorithm she wrote for Charles Babbage's analytical engine. These proceedings address a broad range of topic areas, including telecommunication, power systems, digital signal processing, robotics, control systems, renewable energy, power electronics, soft computing and more. Today’s world is based on vitally important technologies that combine e.g. electronics, cybernetics, computer science, telecommunication, and physics. However, since the advent of these technologies, we have been confronted with numerous technological challenges such as finding optimal solutions to various problems regarding controlling technologies, signal processing, power source design, robotics, etc. Readers will find papers on these and other topics, which share fresh ideas and provide state-of-the-art overviews. They will also benefit practitioners, who can easily apply the issues discussed here to solve real-life problems in their own work. Accordingly, the proceedings offer a valuable resource for all scientists and engineers pursuing research and applications in the above-mentioned fields. THE MEETING The IAU Symposium 160 ASTEROIDS COMETS METEORS 1999 has been held at Villa Carlotta in Belgirate, on the shore of Lago Maggiore (Italy), from June 14 to June 18, 1993. It has been organized by the Astronomical Observatory of Torino and by the Lunar and Planetary Institute of Houston. It has been a very large meeting, with 323 registered participants from 38 countries. The scientific program included 29 invited reviews, 106 oral communications, and 215 posters. The subjects covered included all the aspects of the studies of the minor bodies of the solar system, including asteroids, comets, meteors, meteorites, interplanetary dust, with special focus on the interrelationships between these. The meeting was structured as follows. 5 morning plenary sessions have been devoted to invited reviews on: (1) search programs (2) populations of small bodies (3) dynamics (4) physical observations and modelling (5) origin and evolution. Two afternoon plenary sessions have been devoted to space missions to small bodies and to interrelationships between the different populations. The afternoon parallel sessions have been devoted to: dynamics of comets; Toutatis, Ida, Gaspra; physical processes in cometary comae and tails; meteorites; the cosmogonic message from cometary nuclei; physics of asteroids; the interplanetary dust complex; comet nuclei; meteors; composition and material properties of comets; dynamics of asteroids. "A fascinating look at Ada Lovelace, the pioneering computer programmer

and the daughter of the poet Lord Byron." -- Ada’s Legacy illustrates the depth and diversity of writers, thinkers, and makers who have been inspired by Ada Lovelace, the English mathematician and writer. The volume, which commemorates the bicentennial of Ada’s birth in December 1815, celebrates Lovelace’s many achievements as well as the impact of her life and work, which reverberated widely since the late nineteenth century. In the 21st century we have seen a resurgence in Lovelace scholarship, thanks to the growth of interdisciplinary thinking and the expanding influence of women in science, technology, engineering and mathematics. Ada’s Legacy is a unique contribution to this scholarship, thanks to its combination of papers on Ada’s collaboration with Charles Babbage, Ada’s position in the Victorian and Steampunk literary genres, Ada’s representation in and inspiration of contemporary art and comics, and Ada’s continued relevance in discussions around gender and technology in the digital age. With the 200th anniversary of Ada Lovelace’s birth on December 10, 2015, we believe that the timing is perfect to publish this collection of papers. Because of its broad focus on subjects that reach far beyond the life and work of Ada herself, Ada’s Legacy will appeal to readers who are curious about Ada’s enduring importance in computing and the wider world. Behind every great man, there's a great woman; no other adage more aptly describes the relationship between Charles Babbage, the man credited with thinking up the concept of the programmable computer, and mathematician Ada Lovelace, whose contributions, according to Essinger, proved indispensable to Babbage's invention. The Analytical Engine was a series of cogwheels, gear-shafts, camshafts, and power transmission rods controlled by a punch-card system based on the Jacquard loom. Lovelace, the only legitimate child of English poet Lord Byron, wrote extensive notes about the machine, including an algorithm to compute a long sequence of Bernoulli numbers, which some observers now consider to be the world's first computer program. Charles Babbage and Ada Byron met in 1833. He was a widowed forty-two-year-old scientist and inventor, who was trying to figure out how to get his Difference Engine built. She was the eighteen-year-old daughter of the poet Lord Byron and Lady Annabella Byron, whose marriage had disintegrated in Ada's youth. Through thoughtful narrative accompanied by direct quotes, readers will learn how in Babbage's plans for the Analytical Engine and Lovelace's algorithm lies the foundation of the computer hardware and software that would not be developed for another hundred plus years. Sidebars, a chronology, and a further reading list provide more information on this inspirational collaboration. This book features works from world-class experts from academia, industry, and national agencies from across the world focusing on a wide spectrum of automotive fields covering in-vehicle signal processing, driver modeling, systems and safety. The essays collected in this volume present cutting-edge studies on safety, driver behavior, infrastructure, and human-to-vehicle interfaces. Born during a short-lived marriage between the Romantic poet Lord Byron and an educated mathematician, Lovelace felt the pull of both the creative and scientific worlds. As a lonely and sickly young girl, Lovelace spent her hours building a flying machine and other inventions. While her mother pushed the study of mathematics on her, Lovelace often applied poetic and intuitive thinking to scientific concepts. It was during her work with mathematician Charles Babbage that she pushed the boundaries of technology. Lovelace’s detailed notes on Babbage’s Analytical Machine include a

calculation method that has earned her recognition as the first computer programmer. Ada Lovelace was the only legitimate child of Lord Byron, the dangerous romantice poet whose name became a byword for scandal. Over the past decades, she herself has become a surprising underground star for digital pioneers all over the world, starting with Alan Turing. Embraced by programmers and women intechnology, Ada even has her own day that is commemorated every year on Google's search engine. Autonomous Driving and Advanced Driver-Assistance Systems (ADAS): Applications, Development, Legal Issues, and Testing outlines the latest research related to autonomous cars and advanced driver-assistance systems, including the development, testing, and verification for real-time situations of sensor fusion, sensor placement, control algorithms, and computer vision. Features: Co-edited by an experienced roboticist and author and an experienced academic Addresses the legal aspect of autonomous driving and ADAS Presents the application of ADAS in autonomous vehicle parking systems With an infinite number of real-time possibilities that need to be addressed, the methods and the examples included in this book are a valuable source of information for academic and industrial researchers, automotive companies, and suppliers. The day will soon come when you will be able to verbally communicate with a vehicle and instruct it to drive to a location. The car will navigate through street traffic and take you to your destination without additional instruction or effort on your part. Today, this scenario is still in the future, but the automotive industry is racing to toward the finish line to have automated driving vehicles deployed on our roads. ADAS and Automated Driving: A Practical Approach to Verification and Validation focuses on how automated driving systems (ADS) can be developed from concept to a product on the market for widescale public use. It covers practically viable approaches, methods, and techniques with examples from multiple production programs across different organizations. The author provides an overview of the various Advanced Driver Assistance Systems (ADAS) and ADS currently being developed and installed in vehicles. The technology needed for large-scale production and public use of fully autonomous vehicles is still under development, and the creation of such technology is a highly innovative area of the automotive industry. This text is a comprehensive reference for anyone interested in a career focused on the verification and validation of ADAS and ADS. The examples included in the volume provide the reader foundational knowledge and follow best and proven practices from the industry. Using the information in ADAS and Automated Driving, you can kick start your career in the field of ADAS and ADS. The partnership of Charles Babbage and Ada Lovelace was one that would change science forever. They were an unlikely pair – one the professor son of a banker, the other the only child of an acclaimed poet and a social-reforming mathematician – but perhaps that is why their work was so revolutionary. They were the pioneers of computer science, creating plans for what could have been the first computer. They each saw things the other did not: it may have been Charles who designed the machines, but it was Ada who could see their potential. But what were they like? And how did they work together? Using previously unpublished correspondence between them, Charles and Ada explores the relationship between two remarkable people who shared dreams far ahead of their time. This book contains the latest research on machine learning and embedded computing in advanced driver assistance

systems (ADAS). It encompasses research in detection, tracking, LiDAR and camera processing, ethics, and communications. Several new datasets are also provided for future research work. Researchers and others interested in these topics will find important advances contained in this book. Acts as single source reference providing readers with an overview of how computer vision can contribute to the different applications in the field of road transportation This book presents a survey of computer vision techniques related to three key broad problems in the roadway transportation domain: safety, efficiency, and law enforcement. The individual chapters present significant applications within those problem domains, each presented in a tutorial manner, describing the motivation for and benefits of the application, and a description of the state of the art. Key features: Surveys the applications of computer vision techniques to road transportation system for the purposes of improving safety and efficiency and to assist law enforcement. Offers a timely discussion as computer vision is reaching a point of being useful in the field of transportation systems. Available as an enhanced eBook with video demonstrations to further explain the concepts discussed in the book, as well as links to publically available software and data sets for testing and algorithm development. The book will benefit the many researchers, engineers and practitioners of computer vision, digital imaging, automotive and civil engineering working in intelligent transportation systems. Given the breadth of topics covered, the text will present the reader with new and yet unconceived possibilities for application within their communities. With the integration of Advanced Driver Assistance Systems (ADAS) and Intelligent Transportation Systems into vehicles, the need to measure the performance of these systems from a large scale traffic system level to vehicle component level is necessary in order to ensure the safety of the driver and all the traffic elements like pedestrians, other vehicles and infrastructure. Due to the practical constraints, software-in-loop (SiL) is the widely adopted methodology over on-road testing for verification and validation of these systems. However, these SiL solutions can be expensive and limited in their capabilities due to their proprietary nature. The unavailability of an open-sourced toolset for simulating microscopic vehicles at a macroscopic level has motivated the creation of a novel Simulation of Urban MObility based framework which can be used as a platform for system integration and co-simulations with other tools. Another problem addressed in this thesis is in the rapidly developing area of Perception System Algorithms. Due to the increased availability of data, these algorithms are being trained on huge datasets. However, due to the unavailability of proper evaluation methods or limited traditional metrics, it is challenging to evaluate the variation in the performance of these algorithms on images subjected to environmental variations. In order to evaluate the variation of the performance of an algorithm in different lighting conditions, a novel sensitivity based approach is proposed in this thesis. Based on detailed historical research, this lively, witty, dramatic and highly entertaining libretto, with accompanying lyrics, tells the story of Lord Byron's daughter Ada Byron - subsequently Ada, Countess of Lovelace. Ada was born into privilege and wealth, but her only dream was to become an inventor and a woman of science and to have a life of the mind. Blessed with talent, energy and a remarkable scientific imagination, Ada does all she can to try to make her dreams come true. This book describes different methods that are relevant to the development and testing of control

algorithms for advanced driver assistance systems (ADAS) and automated driving functions (ADF). These control algorithms need to respond safely, reliably and optimally in varying operating conditions. Also, vehicles have to comply with safety and emission legislation. The text describes how such control algorithms can be developed, tested and verified for use in real-world driving situations. Owing to the complex interaction of vehicles with the environment and different traffic participants, an almost infinite number of possible scenarios and situations that need to be considered may exist. The book explains new methods to address this complexity, with reference to human interaction modelling, various theoretical approaches to the definition of real-world scenarios, and with practically-oriented examples and contributions, to ensure efficient development and testing of ADAS and ADF. Control Strategies for Advanced Driver Assistance Systems and Autonomous Driving Functions is a collection of articles by international experts in the field representing theoretical and application-based points of view. As such, the methods and examples demonstrated in the book will be a valuable source of information for academic and industrial researchers, as well as for automotive companies and suppliers. An emerging trend in the automobile industry is its convergence with information technology (IT). Indeed, it has been estimated that almost 90% of new automobile technologies involve IT in some form. Smart driving technologies that improve safety as well as green fuel technologies are quite representative of the convergence between IT and automobiles. The smart driving technologies include three key elements: sensing of driving environments, detection of objects and potential hazards and the generation of driving control signals including warning signals. Although radar-based systems are primarily used for sensing the driving environments, the camera has gained importance in advanced driver assistance systems (ADAS). This book covers system-on-a-chip (SoC) designs—including both algorithms and hardware—related with image sensing and object detection by using the camera for smart driving systems. It introduces a variety of algorithms such as lens correction, super resolution, image enhancement and object detections from the images captured by low-cost vehicle camera. This is followed by implementation issues such as SoC architecture, hardware accelerator, software development environment and reliability techniques for automobile vision systems. This book is aimed for the new and practicing engineers in automotive and chip-design industries to provide some overall guidelines for the development of automotive vision systems. It will also help graduate students understand and get started for the research work in this field. This book constitutes the proceedings of the 32nd International Conference on Architecture of Computing Systems, ARCS 2019, held in Copenhagen, Denmark, in May 2019. The 24 full papers presented in this volume were carefully reviewed and selected from 40 submissions. ARCS has always been a conference attracting leading-edge research outcomes in Computer Architecture and Operating Systems, including a wide spectrum of topics ranging from embedded and real-time systems all the way to large-scale and parallel systems. The selected papers are organized in the following topical sections: Dependable systems; real-time systems; special applications; architecture; memory hierarchy; FPGA; energy awareness; NoC/SoC. The chapter 'MEMPower: Data-Aware GPU Memory Power Model' is open access under a CC BY 4.0 license at link.springer.com. Traces the 200-year evolution of the principles

of Jacquard's knitting machines to the information revolution of the twentieth century and the desk-top computer of today. --From cover (p. 4). This book constitutes the refereed proceedings of the 19th International Conference on Technologies and Applications of Artificial Intelligence, held in Taipei, Taiwan, in November 2014. The 23 revised full papers, 3 short papers, and 8 workshop papers presented at the international track of the conference were carefully reviewed and selected from overall 93 submissions to the international track, domestic track, and international workshops for inclusion in this volume. The papers feature original research results and practical development experiences among researchers and application developers from the many AI related areas including machine learning, data mining, statistics, computer vision, web intelligence, information retrieval, and computer games. The main topic of this book is the recent development of on-board advanced driver-assistance systems (ADAS), which we can already tell will eventually contribute to the autonomous and connected vehicles of tomorrow. With the development of automated mobility, it becomes necessary to design a series of modules which, from the data produced by on-board or remote information sources, will enable the construction of a completely automated driving system. These modules are perception, decision and action. State-of-the-art AI techniques and their potential applications in the field of autonomous vehicles are described. Perception systems, focusing on visual sensors, the decision module and the prototyping, testing and evaluation of ADAS systems are all presented for effective implementation on autonomous and connected vehicles. This book also addresses cooperative systems, such as pedestrian detection, as well as the legal issues in the use of autonomous vehicles in open environments. This book constitutes the proceedings of the 17th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2017, held in Helsinki, Finland, in August 2017. The 25 full papers presented were carefully reviewed and selected from 117 submissions. They cover topics such as parallel and distributed architectures; software systems and programming models; distributed and network-based computing; big data and its applications; parallel and distributed algorithms; applications of parallel and distributed computing; service dependability and security in distributed and parallel systems; service dependability and security in distributed and parallel systems; performance modeling and evaluation.This volume also includes 41 papers of four workshops, namely: the 4th International Workshop on Data, Text, Web, and Social Network Mining (DTWSM 2017), the 5th International Workshop on Parallelism in Bioinformatics (PBio 2017), the First International Workshop on Distributed Autonomous Computing in Smart City (DACSC 2017), and the Second International Workshop on Ultrascale Computing for Early Researchers (UCER 2017). The name Ada Lovelace perhaps is not a name that you would automatically link to computer science but she was in fact the first person to create a computer algorithm. Working with the renowned scientist Charles Babbage, Lovelace translated a set of notes on Babbage’s new mechanical computer, The Analytical Engine and discovered that in fact it could be programed to do more than mere mathematical calculations. Lovelace may have been a mathematical genius but as the only legitimate child of the poet Lord Byron she was also a figure of great scrutiny. Abandoned by her father at just four weeks old, Ada endured a strict childhood in the care of her mother who was adamant that her daughter would not

inherit the so-called Byron madness. She ensured Ada was denied all things that were considered exciting and was pushed more towards the logical subjects such as science and mathematics. Did this strict approach work? Or, did Ada Lovelace inherit more than her genius from her father? Ada was many things, a daughter, wife and mother but above all that she was an inspirational woman, one who defied Victorian ideals by entering the field of mathematical studies and by achieving greatness that is still recognized today. A groundbreaking narrative on the urgency of ethically designed AI and a guidebook to reimagining life in the era of intelligent technology. The Age of Intelligent Machines is upon us, and we are at a reflection point. The proliferation of fast–moving technologies, including forms of artificial intelligence akin to a new species, will cause us to confront profound questions about ourselves. The era of human intellectual superiority is ending, and we need to plan for this monumental shift. A Human Algorithm: How Artificial Intelligence Is Redefining Who We Are examines the immense impact intelligent technology will have on humanity. These machines, while challenging our personal beliefs and our socioeconomic world order, also have the potential to transform our health and well–being, alleviate poverty and suffering, and reveal the mysteries of intelligence and consciousness. International human rights attorney Flynn Coleman deftly argues that it is critical that we instill values, ethics, and morals into our robots, algorithms, and other forms of AI. Equally important, we need to develop and implement laws, policies, and oversight mechanisms to protect us from tech's insidious threats. To realize AI's transcendent potential, Coleman advocates for inviting a diverse group of voices to participate in designing our intelligent machines and using our moral imagination to ensure that human rights, empathy, and equity are core principles of emerging technologies. Ultimately, A Human Algorithm is a clarion call for building a more humane future and moving conscientiously into a new frontier of our own design. "[Coleman] argues that the algorithms of machine learning—if they are instilled with human ethics and values—could bring about a new era of enlightenment." —San Francisco Chronicle "[Ada Lovelace], like Steve Jobs, stands at the intersection of arts and technology."—Walter Isaacson, author of The Innovators Over 150 years after her death, a widely-used scientific computer program was named "Ada," after Ada Lovelace, the only legitimate daughter of the eighteenth century's version of a rock star, Lord Byron. Why? Because, after computer pioneers such as Alan Turing began to rediscover her, it slowly became apparent that she had been a key but overlooked figure in the invention of the computer. In Ada Lovelace, James Essinger makes the case that the computer age could have started two centuries ago if Lovelace's contemporaries had recognized her research and fully grasped its implications. It's a remarkable tale, starting with the outrageous behavior of her father, which made Ada instantly famous upon birth. Ada would go on to overcome numerous obstacles to obtain a level of education typically forbidden to women of her day. She would eventually join forces with Charles Babbage, generally credited with inventing the computer, although as Essinger makes clear, Babbage couldn't have done it without Lovelace. Indeed, Lovelace wrote what is today considered the world's first computer program—despite opposition that the principles of science were "beyond the strength of a woman's physical power of application." Based on ten years of research and filled with fascinating characters and observations of the

period, not to mention numerous illustrations, Essinger tells Ada’s fascinating story in unprecedented detail to absorbing and inspiring effect. Do you enjoy playing computer games or learning programming code? As a child, Ada Lovelace loved learning about math and science. As an adult, she used that knowledge to create the first computer program—before electronic computers even existed! When Lovelace was a child, girls didn't typically study math. But she loved the subject and often dreamed about new machines. Lovelace learned from famous mathematicians and became friends with inventor and engineer Charles Babbage. Realizing the full potential of his calculating machines, she became a pioneer of computer programming. But how did she get there? Find out how Lovelace's determination helped her become the first computer programmer. " Ada Lovelace], like Steve Jobs, stands at the intersection of arts and technology."--Walter Isaacson, author of The Innovators Over 150 years after her death, a widely-used scientific computer program was named "Ada," after Ada Lovelace, the only legitimate daughter of the eighteenth century's version of a rock star, Lord Byron. Why? Because, after computer pioneers such as Alan Turing began to rediscover her, it slowly became apparent that she had been a key but overlooked figure in the invention of the computer. In Ada Lovelace, James Essinger makes the case that the computer age could have started two centuries ago if Lovelace's contemporaries had recognized her research and fully grasped its implications. It's a remarkable tale, starting with the outrageous behavior of her father, which made Ada instantly famous upon birth. Ada would go on to overcome numerous obstacles to obtain a level of education typically forbidden to women of her day. She would eventually join forces with Charles Babbage, generally credited with inventing the computer, although as Essinger makes clear, Babbage couldn't have done it without Lovelace. Indeed, Lovelace wrote what is today considered the world's first computer program--despite opposition that the principles of science were "beyond the strength of a woman's physical power of application." Based on ten years of research and filled with fascinating characters and observations of the period, not to mention numerous illustrations, Essinger tells Ada's fascinating story in unprecedented detail to absorbing and inspiring effect. From the Hardcover edition. This book constitutes the refereed proceedings of the 11th International Conference on Computer Vision Systems, ICVS 2017, held in Shenzhen, China, in July 2017. The 61 papers presented were carefully reviewed and selected from 92 submissions. The papers are organized in topical sections on visual control, visual navigation, visual inspection, image processing, human robot interaction, stereo system, image retrieval, visual detection, visual recognition, system design, and 3D vision / fusion. This book is devoted to game theory and its applications to environmental problems, economics, and management. It collects contributions originating from the 12th International Conference on “Game Theory and Management” 2018 (GTM2018) held at Saint Petersburg State University, Russia, from 27 to 29 June 2018. Advanced Driver Assistance Systems (ADAS) and Automated Driving Systems (ADS) are ushering in a new era of transportation innovation and safety by incorporating technologies aimed at making the driving experience safer, more efficient, and comfortable. They assist in performing complex maneuvers, preempt potential risky situations, and take over the driver’s tasks in critical situations. Innovation acceptance research for ADAS show that the increasing demand for safety and comfort are the two key

prime movers of ADAS market. Hence, there is a need to comprehensively test for both during the process of product verification and validation. Due to complexity of the system, cost of testing and safety of the test engineers, a significant part of ADAS/ADS algorithms validation needs to be done virtually. Although simulation-based validation and verification (V&V) is not new, the requirements of test descriptions and software tools are not yet well understood. This project builds around the process of simulation for testing by exposing ADAS/ADS software to pre-defined scenarios. Different scenarios are built in a series of virtual simulators which have unique features, methods and assumptions that must be well-understood for the results to be proven valid. These essential features of the simulators are documented to understand the effect of simulator specific scenario parameters on simulation results. For the perceived safety and comfort aspect of ADAS, objective assessment of the Lane Keep Assist feature is performed which involves a MATLAB®-based tool for giving a scalar rating to the performance of the Lane Keep Assist system. For a series of simulations, the essential drive quality parameters and the corresponding “goodness score” ratings of ADAS based on suitable metrics are used to train and develop a Machine learning algorithm that gives a quality assessment of the Lane Keep Assist system. Finally, a methodology is proposed that can be used to perform the same assessment experimentally, expanding the scope of the project. In general, the thesis is a guideline to developing simulation-based V&V tools for ADAS. This illuminating collection offers a fresh look at the very latest advances in the field of embedded computer vision. Emerging areas covered by this comprehensive text/reference include the embedded realization of 3D vision technologies for a variety of applications, such as stereo cameras on mobile devices. Recent trends towards the development of small unmanned aerial vehicles (UAVs) with embedded image and video processing algorithms are also examined. Topics and features: discusses in detail three major success stories – the development of the optical mouse, vision for consumer robotics, and vision for automotive safety; reviews state-of-the-art research on embedded 3D vision, UAVs, automotive vision, mobile vision apps, and augmented reality; examines the potential of embedded computer vision in such cutting-edge areas as the Internet of Things, the mining of large data streams, and in computational sensing; describes historical successes, current implementations, and future challenges. This textbook provides an in depth course on data structures in the context of object oriented development. Its main themes are abstraction, implementation, encapsulation, and measurement: that is, that the software process begins with abstraction of data types, which then lead to alternate representations and encapsulation, and finally to resource measurement. A clear object oriented approach, making use of Booch components, will provide readers with a useful library of data structure components and experience in software reuse. Students using this book are expected to have a reasonable understanding of the basic logical structures such as stacks and queues. Throughout, Ada 95 is used and the author takes full advantage of Ada's encapsulation features and the ability to present specifications without implementational details. Ada code is supported by two suites available over the World Wide Web.