

REFACTORING FOR SOFTWARE DESIGN SMELLS

2014-11-11

AWARENESS OF DESIGN SMELLS INDICATORS OF COMMON DESIGN PROBLEMS HELPS DEVELOPERS OR SOFTWARE ENGINEERS UNDERSTAND MISTAKES MADE WHILE DESIGNING WHAT DESIGN PRINCIPLES WERE OVERLOOKED OR MISAPPLIED AND WHAT PRINCIPLES NEED TO BE APPLIED PROPERLY TO ADDRESS THOSE SMELLS THROUGH REFACTORING DEVELOPERS AND SOFTWARE ENGINEERS MAY KNOW PRINCIPLES AND PATTERNS BUT ARE NOT AWARE OF THE SMELLS THAT EXIST IN THEIR DESIGN BECAUSE OF WRONG OR MIS APPLICATION OF PRINCIPLES OR PATTERNS THESE SMELLS TEND TO CONTRIBUTE HEAVILY TO TECHNICAL DEBT FURTHER TIME OWED TO FIX PROJECTS THOUGHT TO BE COMPLETE AND NEED TO BE ADDRESSED VIA PROPER REFACTORING REFACTORING FOR SOFTWARE DESIGN SMELLS PRESENTS 25 STRUCTURAL DESIGN SMELLS THEIR ROLE IN IDENTIFYING DESIGN ISSUES AND POTENTIAL REFACTORING SOLUTIONS ORGANIZED ACROSS COMMON AREAS OF SOFTWARE DESIGN EACH SMELL IS PRESENTED WITH DIAGRAMS AND EXAMPLES ILLUSTRATING THE POOR DESIGN PRACTICES AND THE PROBLEMS THAT RESULT CREATING A CATALOG OF NUGGETS OF READILY USABLE INFORMATION THAT DEVELOPERS OR ENGINEERS CAN APPLY IN THEIR PROJECTS THE AUTHORS DISTILL THEIR RESEARCH AND EXPERIENCE AS CONSULTANTS AND TRAINERS PROVIDING INSIGHTS THAT HAVE BEEN USED TO IMPROVE REFACTORING AND REDUCE THE TIME AND COSTS OF MANAGING SOFTWARE PROJECTS ALONG THE WAY THEY RECOUNT ANECDOTES FROM ACTUAL PROJECTS ON WHICH THE RELEVANT SMELL HELPED ADDRESS A DESIGN ISSUE CONTAINS A COMPREHENSIVE CATALOG OF 25 STRUCTURAL DESIGN SMELLS ORGANIZED AROUND FOUR FUNDAMENTAL DESIGN PRINCIPLES THAT CONTRIBUTE TO TECHNICAL DEBT IN SOFTWARE PROJECTS PRESENTS A UNIQUE NAMING SCHEME FOR SMELLS THAT HELPS UNDERSTAND THE CAUSE OF A SMELL AS WELL AS POINTS TOWARD ITS POTENTIAL REFACTORING INCLUDES ILLUSTRATIVE EXAMPLES THAT SHOWCASE THE POOR DESIGN PRACTICES UNDERLYING A SMELL AND THE PROBLEMS THAT RESULT COVERS PRAGMATIC TECHNIQUES FOR REFACTORING DESIGN SMELLS TO MANAGE TECHNICAL DEBT AND TO CREATE AND MAINTAIN HIGH QUALITY SOFTWARE IN PRACTICE PRESENTS INSIGHTFUL ANECDOTES AND CASE STUDIES DRAWN FROM THE TRENCHES OF REAL WORLD PROJECTS

SOFTWARE DESIGN X-RAYS

2018-03-08

ARE YOU WORKING ON A CODEBASE WHERE COST OVERRUNS DEATH MARCHES AND HEROIC FIGHTS WITH LEGACY CODE MONSTERS ARE THE NORM BATTLE THESE ADVERSARIES WITH NOVEL WAYS TO IDENTIFY AND PRIORITIZE TECHNICAL DEBT BASED ON BEHAVIORAL DATA FROM HOW DEVELOPERS WORK WITH CODE AND THAT S JUST FOR STARTERS BECAUSE GOOD CODE INVOLVES SOCIAL DESIGN AS WELL AS TECHNICAL DESIGN YOU CAN FIND SURPRISING DEPENDENCIES BETWEEN PEOPLE AND CODE TO RESOLVE COORDINATION BOTTLENECKS AMONG TEAMS BEST OF ALL THE TECHNIQUES BUILD ON BEHAVIORAL DATA THAT YOU ALREADY HAVE YOUR VERSION CONTROL SYSTEM JOIN THE FIGHT FOR BETTER CODE USE STATISTICS AND DATA SCIENCE TO UNCOVER BOTH PROBLEMATIC CODE AND THE BEHAVIORAL PATTERNS OF THE DEVELOPERS WHO BUILD YOUR SOFTWARE THIS COMBINATION GIVES YOU INSIGHTS YOU CAN T GET FROM THE CODE ALONE USE THESE INSIGHTS TO PRIORITIZE REFACTORING NEEDS MEASURE THEIR EFFECT FIND IMPLICIT DEPENDENCIES BETWEEN DIFFERENT MODULES AND AUTOMATICALLY CREATE KNOWLEDGE MAPS OF YOUR SYSTEM BASED ON ACTUAL CODE CONTRIBUTIONS IN A RADICAL MUCH NEEDED CHANGE FROM COMMON PRACTICE GUIDE ORGANIZATIONAL DECISIONS WITH OBJECTIVE DATA BY MEASURING HOW WELL YOUR DEVELOPMENT TEAMS ALIGN WITH THE SOFTWARE ARCHITECTURE DISCOVER A COMPREHENSIVE SET OF PRACTICAL ANALYSIS TECHNIQUES BASED ON VERSION CONTROL DATA WHERE EACH POINT IS ILLUSTRATED WITH A CASE STUDY FROM A REAL WORLD CODEBASE BECAUSE THE TECHNIQUES ARE LANGUAGE NEUTRAL YOU CAN APPLY THEM TO YOUR OWN CODE NO MATTER WHAT PROGRAMMING LANGUAGE YOU USE GUIDE ORGANIZATIONAL DECISIONS WITH OBJECTIVE DATA BY MEASURING HOW WELL YOUR DEVELOPMENT TEAMS ALIGN WITH THE SOFTWARE ARCHITECTURE APPLY RESEARCH FINDINGS FROM SOCIAL PSYCHOLOGY TO SOFTWARE DEVELOPMENT ENSURING YOU GET THE TOOLS YOU NEED TO COACH YOUR ORGANIZATION TOWARDS BETTER CODE IF YOU RE AN EXPERIENCED PROGRAMMER SOFTWARE ARCHITECT OR TECHNICAL MANAGER YOU LL GET A NEW PERSPECTIVE THAT WILL CHANGE HOW YOU WORK WITH CODE WHAT YOU NEED YOU DON T HAVE TO INSTALL ANYTHING TO FOLLOW ALONG IN THE BOOK TTHE CASE STUDIES IN THE BOOK USE WELL KNOWN OPEN SOURCE PROJECTS HOSTED ON GITHUB YOU LL USE CODESCENE A FREE SOFTWARE ANALYSIS TOOL FOR OPEN SOURCE PROJECTS FOR THE CASE STUDIES WE ALSO DISCUSS ALTERNATIVE TOOLING OPTIONS WHERE THEY EXIST

AGILE TECHNICAL PRACTICES DISTILLED

2019-06-28

DELVE DEEP INTO THE VARIOUS TECHNICAL PRACTICES PRINCIPLES AND VALUES OF AGILE KEY FEATURES DISCOVER THE ESSENCE OF AGILE SOFTWARE DEVELOPMENT AND THE KEY PRINCIPLES OF SOFTWARE DESIGN EXPLORE THE FUNDAMENTAL PRACTICES OF AGILE WORKING INCLUDING TEST DRIVEN DEVELOPMENT TDD REFACTORING PAIR PROGRAMMING AND CONTINUOUS INTEGRATION LEARN AND APPLY THE FOUR ELEMENTS OF SIMPLE DESIGN BOOK DESCRIPTION THE NUMBER OF POPULAR TECHNICAL PRACTICES HAS GROWN EXPONENTIALLY IN THE LAST FEW YEARS LEARNING THE COMMON FUNDAMENTAL SOFTWARE DEVELOPMENT PRACTICES CAN HELP YOU BECOME A BETTER PROGRAMMER THIS BOOK USES THE TERM AGILE AS A WIDE UMBRELLA AND COVERS AGILE PRINCIPLES AND PRACTICES AS WELL AS MOST METHODOLOGIES ASSOCIATED WITH IT YOU WILL BEGIN BY DISCOVERING HOW DRIVER NAVIGATOR CHESS CLOCK AND OTHER TECHNIQUES USED IN THE PAIR PROGRAMMING APPROACH INTRODUCE DISCIPLINE WHILE WRITING CODE YOU WILL THEN LEARN TO SAFELY CHANGE THE DESIGN OF YOUR CODE USING REFACTORING WHILE LEARNING THESE TECHNIQUES YOU WILL ALSO EXPLORE VARIOUS BEST PRACTICES TO WRITE EFFICIENT TESTS THE CONCLUDING CHAPTERS OF THE BOOK DELVE DEEP INTO THE SOLID PRINCIPLES THE FIVE DESIGN PRINCIPLES THAT YOU CAN USE TO MAKE YOUR SOFTWARE MORE UNDERSTANDABLE FLEXIBLE AND MAINTAINABLE BY THE END OF THE BOOK YOU WILL HAVE DISCOVERED NEW IDEAS FOR IMPROVING YOUR SOFTWARE DESIGN SKILLS THE RELATIONSHIP WITHIN YOUR TEAM AND THE WAY YOUR BUSINESS WORKS WHAT YOU WILL LEARN LEARN THE RED GREEN REFACTOR CYCLE OF CLASSIC TDD AND PRACTICE THE BEST HABITS SUCH AS THE RULE OF 3 TRIANGULATION OBJECT CALISTHENICS AND MORE REFACTOR USING PARALLEL CHANGE AND IMPROVE LEGACY CODE WITH CHARACTERIZATION TESTS APPROVAL TESTS AND GOLDEN MASTER USE CODE SMELLS AS FEEDBACK TO IMPROVE YOUR DESIGN LEARN THE DOUBLE CYCLE OF ATDD AND THE OUTSIDE IN MINDSET USING MOCKS AND STUBS CORRECTLY IN YOUR TESTS UNDERSTAND HOW COUPLING COHESION CONSCIENCE SOLID PRINCIPLES AND CODE SMELLS ARE ALL RELATED IMPROVE THE UNDERSTANDING OF YOUR BUSINESS DOMAIN USING BDD AND OTHER PRINCIPLES FOR DOING THE RIGHT THING NOT ONLY THE THING RIGHT WHO THIS BOOK IS FOR THIS BOOK IS DESIGNED FOR SOFTWARE DEVELOPERS LOOKING TO IMPROVE THEIR TECHNICAL PRACTICES SOFTWARE COACHES MAY ALSO FIND IT HELPFUL AS A TEACHING REFERENCE MANUAL THIS IS NOT A BEGINNER'S BOOK ON HOW TO PROGRAM YOU MUST BE COMFORTABLE WITH AT LEAST ONE PROGRAMMING LANGUAGE AND MUST BE ABLE TO WRITE UNIT TESTS USING ANY UNIT TESTING FRAMEWORK

DESIGNING DELAY-TOLERANT APPLICATIONS FOR STORE-AND-FORWARD NETWORKS

2020-01-31

THIS COMPREHENSIVE RESOURCE EXPLAINS HOW NETWORK APPLICATION ENGINEERS BENEFIT FROM STORE AND FORWARD PROTOCOLS IT REVIEWS THE MOTIVATION AND DESIGN OF DELAY TOLERANT NETWORKS DTNS AND PRESENTS A SERIES OF DESIGN PATTERNS WITH EXAMPLES FOR DEVELOPING AND DEPLOYING DELAY TOLERANT APPLICATIONS THE RATIONALE FOR DELAY TOLERANT APPLICATIONS AS AN EVOLUTION OF STANDARD SOLUTIONS TO CURRENT TERRESTRIAL INTERNET NETWORKING CHALLENGES IS PRESENTED SIMILARITIES BETWEEN INTERNET ARCHITECTURES AND DTN FEATURES ARE DESCRIBED ALONG WITH AN OVERVIEW OF THE HISTORY OF DTNS THE ARCHITECTURE DEFINING MODERN DTNS AND THE BUNDLE PROTOCOL TRANSPORT MECHANISM THE BOOK IDENTIFIES EMERGING ADVANCED NETWORKING CONCEPTS THAT REQUIRE DELAY TOLERANCE AND PRESENTS NETWORK DESIGN PATTERNS AS A GENERAL WAY OF REASONING ABOUT THESE CONCEPTS DELAY TOLERANCE IS EXPLAINED AND HOW IT CAN BE USED TO CACHE CONTENT IN A NETWORK PERFORM OPEN LOOP AUTONOMOUS CONTROL OF NODES ANNOTATE MESSAGES TO REDUCE TRAFFIC NEEDS PERFORM DISTRIBUTED ERROR CORRECTION IMPLEMENT IN NETWORK DATA FUSION AND OPERATIONALIZE REGIONAL ADMINISTRATION THE BOOK DISCUSSES SPECIAL CONSIDERATIONS UNIQUE TO DTNS THAT MUST BE ACCOMMODATED BY DELAY TOLERANT APPLICATIONS EXAMPLES OF USING THESE PATTERNS AND A CASE STUDY FOR THEIR DEPLOYMENT

TRENDS IN SOFTWARE TESTING

2016-07-26

THIS BOOK IS FOCUSED ON THE ADVANCEMENTS IN THE FIELD OF SOFTWARE TESTING AND THE INNOVATIVE PRACTICES THAT THE INDUSTRY IS ADOPTING CONSIDERING THE WIDELY VARIED NATURE OF SOFTWARE TESTING THE BOOK ADDRESSES CONTEMPORARY ASPECTS THAT ARE IMPORTANT FOR BOTH ACADEMIA AND INDUSTRY THERE ARE DEDICATED CHAPTERS ON SEAMLESS HIGH EFFICIENCY FRAMEWORKS AUTOMATION ON REGRESSION TESTING SOFTWARE BY SEARCH AND SYSTEM EVOLUTION MANAGEMENT THERE ARE A HOST OF MATHEMATICAL MODELS THAT ARE PROMISING FOR SOFTWARE QUALITY IMPROVEMENT BY MODEL BASED TESTING THERE ARE THREE CHAPTERS ADDRESSING THIS CONCERN STUDENTS AND

RESEARCHERS IN PARTICULAR WILL FIND THESE CHAPTERS USEFUL FOR THEIR MATHEMATICAL STRENGTH AND RIGOR OTHER TOPICS COVERED INCLUDE UNCERTAINTY IN TESTING SOFTWARE SECURITY TESTING TESTING AS A SERVICE TEST TECHNICAL DEBT OR TEST DEBT DISRUPTION CAUSED BY DIGITAL ADVANCEMENT SOCIAL MEDIA CLOUD COMPUTING MOBILE APPLICATION AND DATA ANALYTICS AND CHALLENGES AND BENEFITS OF OUTSOURCING THE BOOK WILL BE OF INTEREST TO STUDENTS RESEARCHERS AS WELL AS PROFESSIONALS IN THE SOFTWARE INDUSTRY

AUTOMATED SOFTWARE TESTING

2020-02-03

THIS BOOK COVERS BOTH THEORY AND APPLICATIONS IN THE AUTOMATION OF SOFTWARE TESTING TOOLS AND TECHNIQUES FOR VARIOUS TYPES OF SOFTWARE E G OBJECT ORIENTED ASPECT ORIENTED AND WEB BASED SOFTWARE WHEN SOFTWARE FAILS IT IS MOST OFTEN DUE TO LACK OF PROPER AND THOROUGH TESTING AN ASPECT THAT IS EVEN MORE ACUTE FOR OBJECT ORIENTED ASPECT ORIENTED AND WEB BASED SOFTWARE FURTHER SINCE IT IS MORE DIFFICULT TO TEST DISTRIBUTED AND SERVICE ORIENTED ARCHITECTURE BASED APPLICATIONS THERE IS A PRESSING NEED TO DISCUSS THE LATEST DEVELOPMENTS IN AUTOMATED SOFTWARE TESTING THIS BOOK DISCUSSES THE MOST RELEVANT ISSUES MODELS TOOLS CHALLENGES AND APPLICATIONS IN AUTOMATED SOFTWARE TESTING FURTHER IT BRINGS TOGETHER ACADEMIC RESEARCHERS SCIENTISTS AND ENGINEERS FROM A WIDE RANGE OF INDUSTRIAL APPLICATION AREAS WHO PRESENT THEIR LATEST FINDINGS AND IDENTIFY FUTURE CHALLENGES IN THIS FLEDGING RESEARCH AREA

COMPUTER SUPPORTED EDUCATION

2020-11-09

THIS BOOK CONSTITUTES THE THOROUGHLY REFEREED PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON COMPUTER SUPPORTED EDUCATION CSEDU 2019 HELD IN HERAKLION CRETE GREECE IN MAY 2019 THE 30 REVISED FULL PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 202 SUBMISSIONS THE PAPERS COVER WIDE RESEARCH FIELDS INCLUDING AUTHORING TOOLS AND CONTENT DEVELOPMENT AV COMMUNICATION AND MULTIMEDIA CLASSROOM MANAGEMENT E LEARNING HARDWARE AND SOFTWARE BLENDED LEARNING CRITICAL SUCCESS FACTORS IN DISTANCE LEARNING

COMPUTATIONAL SCIENCE AND ITS APPLICATIONS – ICCSA 2017

2017-07-13

THE SIX VOLUME SET LNCS 10404 10409 CONSTITUTES THE REFEREED PROCEEDINGS OF THE 17TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE AND ITS APPLICATIONS ICCSA 2017 HELD IN TRIESTE ITALY IN JULY 2017 THE 313 FULL PAPERS AND 12 SHORT PAPERS INCLUDED IN THE 6 VOLUME PROCEEDINGS SET WERE CAREFULLY REVIEWED AND SELECTED FROM 1052 SUBMISSIONS APART FROM THE GENERAL TRACKS ICCSA 2017 INCLUDED 43 INTERNATIONAL WORKSHOPS IN VARIOUS AREAS OF COMPUTATIONAL SCIENCES RANGING FROM COMPUTATIONAL SCIENCE TECHNOLOGIES TO SPECIFIC AREAS OF COMPUTATIONAL SCIENCES SUCH AS COMPUTER GRAPHICS AND VIRTUAL REALITY FURTHERMORE THIS YEAR ICCSA 2017 HOSTED THE XIV INTERNATIONAL WORKSHOP ON QUANTUM REACTIVE SCATTERING THE PROGRAM ALSO FEATURED 3 KEYNOTE SPEECHES AND 4 TUTORIALS

DATA SCIENCE AND ANALYTICS

2020-05-27

THIS TWO VOLUME SET CCIS 1229 AND CCIS 1230 CONSTITUTES THE REFEREED PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON RECENT DEVELOPMENTS IN SCIENCE ENGINEERING AND TECHNOLOGY REDSET 2019 HELD IN GURUGRAM INDIA IN NOVEMBER 2019 THE 74 REVISED FULL PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM TOTAL 353 SUBMISSIONS THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS ON DATA CENTRIC PROGRAMMING NEXT GENERATION COMPUTING SOCIAL AND WEB ANALYTICS SECURITY IN DATA SCIENCE ANALYTICS BIG DATA ANALYTICS



2002-12



EVALUATION OF NOVEL APPROACHES TO SOFTWARE ENGINEERING

2021-02-26

THIS BOOK CONSTITUTES SELECTED REVISED AND EXTENDED PAPERS OF THE 15TH INTERNATIONAL CONFERENCE ON EVALUATION OF NOVEL APPROACHES TO SOFTWARE ENGINEERING ENASE 2020 HELD IN VIRTUAL FORMAT IN MAY 2020 THE 19 REVISED FULL PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 96 SUBMISSIONS THE PAPERS INCLUDED IN THIS BOOK CONTRIBUTE TO THE UNDERSTANDING OF RELEVANT TRENDS OF CURRENT RESEARCH ON NOVEL APPROACHES TO SOFTWARE ENGINEERING FOR THE DEVELOPMENT AND MAINTENANCE OF SYSTEMS AND APPLICATIONS SPECICALLY WITH RELATION TO MODEL DRIVEN SOFTWARE ENGINEERING REQUIREMENTS ENGINEERING EMPIRICAL SOFTWARE ENGINEERING SERVICE ORIENTED SOFTWARE ENGINEERING BUSINESS PROCESS MANAGEMENT AND ENGINEERING KNOWLEDGE MANAGEMENT AND ENGINEERING REVERSE SOFTWARE ENGINEERING SOFTWARE PROCESS IMPROVEMENT SOFTWARE CHANGE AND CONFIGURATION MANAGEMENT SOFTWARE METRICS SOFTWARE PATTERNS AND REFACTORING APPLICATION INTEGRATION SOFTWARE ARCHITECTURE CLOUD COMPUTING AND FORMAL METHODS

SOFTWARE QUALITY: HIGHER SOFTWARE QUALITY THROUGH ZERO WASTE DEVELOPMENT

2023-05-12

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 15TH SOFTWARE QUALITY DAYS CONFERENCE SWQD 2023 HELD IN MUNICH GERMANY DURING MAY 23 25 2023 THE SOFTWARE QUALITY DAYS SWQD CONFERENCE STARTED IN 2009 AND HAS GROWN TO THE BIGGEST CONFERENCE ON SOFTWARE QUALITY IN EUROPE THE PROGRAM OF THE SWQD CONFERENCE IS DESIGNED TO ENCOMPASS A STIMULATING MIXTURE OF PRACTICAL PRESENTATIONS AND NEW RESEARCH TOPICS IN SCIENTIFIC PRESENTATIONS THE GUIDING CONFERENCE TOPIC OF THE SWQD 2023 IS HIGHER SOFTWARE QUALITY THROUGH ZERO WASTE DEVELOPMENT THE 4 FULL PAPERS AND 2 SHORT PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 10 SUBMISSIONS THE VOLUME ALSO CONTAINS ONE INVITED TALK

ADVANCES IN INFORMATION AND COMMUNICATION

2021-04-15

THIS BOOK AIMS TO PROVIDE AN INTERNATIONAL FORUM FOR SCHOLARLY RESEARCHERS PRACTITIONERS AND ACADEMIC COMMUNITIES TO EXPLORE THE ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGIES AND ITS APPLICATIONS IN TECHNICAL AND SCHOLARLY DEVELOPMENT THE CONFERENCE ATTRACTED A TOTAL OF 464 SUBMISSIONS OF WHICH 152 SUBMISSIONS INCLUDING 4 POSTER PAPERS HAVE BEEN SELECTED AFTER A DOUBLE BLIND REVIEW PROCESS ACADEMIC PIONEERING RESEARCHERS SCIENTISTS INDUSTRIAL ENGINEERS AND STUDENTS WILL FIND THIS SERIES USEFUL TO GAIN INSIGHT INTO THE CURRENT RESEARCH AND NEXT GENERATION INFORMATION SCIENCE AND COMMUNICATION TECHNOLOGIES THIS BOOK DISCUSSES THE ASPECTS OF COMMUNICATION DATA SCIENCE AMBIENT INTELLIGENCE NETWORKING COMPUTING SECURITY AND INTERNET OF THINGS FROM CLASSICAL TO INTELLIGENT SCOPE THE AUTHORS HOPE THAT READERS FIND THE VOLUME INTERESTING AND VALUABLE IT GATHERS CHAPTERS ADDRESSING STATE OF THE ART INTELLIGENT METHODS AND TECHNIQUES FOR SOLVING REAL WORLD PROBLEMS ALONG WITH A VISION OF THE FUTURE RESEARCH

SOFTWARE ENGINEERING, ARTIFICIAL INTELLIGENCE, NETWORKING AND PARALLEL/DISTRIBUTED COMPUTING

2019-08-22

THIS BOOK PRESENTS THE OUTCOMES OF THE 20TH IEEE ACIS INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING ARTIFICIAL INTELLIGENCE NETWORKING AND PARALLEL DISTRIBUTED COMPUTING SNPD 2019 WHICH WAS HELD ON JULY 8 10 2019 IN TOYAMA JAPAN THE AIM OF THE CONFERENCE WAS TO BRING TOGETHER RESEARCHERS AND SCIENTISTS BUSINESSPEOPLE AND ENTREPRENEURS TEACHERS ENGINEERS COMPUTER USERS AND STUDENTS TO DISCUSS THE VARIOUS FIELDS OF COMPUTER SCIENCE AND TO SHARE THEIR EXPERIENCES AND EXCHANGE NEW IDEAS AND INFORMATION IN A MEANINGFUL WAY FURTHER THEY PRESENTED RESEARCH RESULTS ON ALL ASPECTS THEORY APPLICATIONS AND TOOLS OF COMPUTER AND INFORMATION SCIENCE AND DISCUSSED THE PRACTICAL CHALLENGES ENCOUNTERED IN THEIR WORK AND THE SOLUTIONS THEY ADOPTED TO OVERCOME THEM THE BOOK HIGHLIGHTS THE BEST PAPERS FROM THOSE ACCEPTED FOR PRESENTATION AT THE CONFERENCE THEY WERE CHOSEN BASED ON REVIEW SCORES SUBMITTED BY MEMBERS

OF THE PROGRAM COMMITTEE AND UNDERWENT FURTHER RIGOROUS ROUNDS OF REVIEW FROM THIS SECOND ROUND 15 OF THE CONFERENCE S MOST PROMISING PAPERS WERE SELECTED FOR THIS SPRINGER SCI BOOK AND NOT THE CONFERENCE PROCEEDINGS WE EAGERLY AWAIT THE IMPORTANT CONTRIBUTIONS THAT WE KNOW THESE AUTHORS WILL MAKE TO THE FIELD OF COMPUTER AND INFORMATION SCIENCE

INTELLIGENCE OF THINGS: TECHNOLOGIES AND APPLICATIONS

2022-08-22

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE FIRST CONFERENCE ON INTELLIGENCE OF THINGS ICIT 2022 HELD IN HANOI VIETNAM IN AUGUST 2022 A TOTAL OF 40 FULL PAPERS IN THIS BOOK HAVE BEEN RIGOROUSLY PEER REVIEWED AND SELECTED FROM OVER 100 SUBMISSIONS THE PAPERS FOCUSED ON THE INTELLIGENCE OF THINGS AIOT STUDIES ARE ORGANIZED IN THE FOLLOWING PARTS THEORETICAL INTELLIGENCE ANALYSES INTELLIGENCE SERVICES AND APPLICATIONS AND INTELLIGENCE SERVICE EXPERIMENTS THIS BOOK PROVIDES INTERESTED STUDENTS AND ENGINEERS WITH COMPREHENSIVE AND CUTTING EDGE STUDIES IN THE FIELDS

ASP.NET MVC FRAMEWORK UNLEASHED

2009-07-14

IN THIS BOOK WORLD RENOWNED ASP NET EXPERT AND MEMBER OF THE MICROSOFT ASP NET TEAM STEPHEN WALTHER SHOWS EXPERIENCED DEVELOPERS HOW TO USE MICROSOFT S NEW ASP NET MVC FRAMEWORK TO BUILD WEB APPLICATIONS THAT ARE MORE POWERFUL FLEXIBLE TESTABLE MANAGEABLE SCALABLE AND EXTENSIBLE WRITING FOR PROFESSIONAL PROGRAMMERS WALTHER EXPLAINS THE CRUCIAL CONCEPTS THAT MAKE THE MODEL VIEW CONTROLLER MVC DEVELOPMENT PARADIGM WORK SO WELL AND SHOWS EXACTLY HOW TO APPLY THEM WITH THE ASP NET MVC FRAMEWORK FROM CONTROLLERS AND ACTIONS TO VIEWS AND MODELS WALTHER DEMONSTRATES HOW TO APPLY EACH ASP NET MVC FRAMEWORK FEATURE IN REAL WORLD PROJECTS IN PART II YOU LL WALK STEP BY STEP THROUGH BUILDING A FULL FLEDGED ASP NET MVC BLOG APPLICATION THAT IMPLEMENTS CAPABILITIES RANGING FROM DATA ACCESS TO VALIDATION THROUGH THIS CASE STUDY YOU LL LEARN HOW TO BUILD ASP NET MVC APPLICATIONS USING TEST DRIVEN DEVELOPMENT PROCESSES THAT ENABLE RAPID FEEDBACK GREATER

PRODUCTIVITY AND BETTER QUALITY THROUGHOUT WALTHER PRESENTS EXTENSIVE CODE EXAMPLES REFLECTING HIS UNSURPASSED EXPERIENCE AS AN ASP NET INSTRUCTOR A LEADING COMMERCIAL DEVELOPER AND NOW AS A MEMBER OF MICROSOFT S ASP NET DEVELOPMENT TEAM UNDERSTAND HOW TO BUILD ENTERPRISE SCALE WEB APPLICATIONS FAR MORE RAPIDLY AND EFFECTIVELY DEVELOP WEB APPLICATIONS THAT ARE EASIER TO MAINTAIN AND EXTEND OVER TIME GAIN UNPRECEDENTED CONTROL OVER THE APPEARANCE OF YOUR WEBSITE OR APPLICATION EXPOSE INTUITIVE URLS THAT ARE FRIENDLIER TO SEARCH ENGINES AND USERS ALIKE CREATE ASP NET MVC MODELS THAT CONTAIN ALL YOUR APPLICATION S BUSINESS VALIDATION AND DATA ACCESS LOGIC MAKE THE MOST OF HTML HELPERS MODEL BINDERS ACTION FILTERS ROUTING AND AUTHENTICATION EFFICIENTLY DEPLOY YOUR ASP NET MVC APPLICATIONS USE THE LIGHTWEIGHT JQUERY JAVASCRIPT LIBRARY TO EASILY FIND AND MANIPULATE HTML ELEMENTS CREATE ASP NET MVC APPLICATIONS USING UNIT TEST AND MOCK OBJECT FRAMEWORK

COMPUTATIONAL INTELLIGENCE IN PATTERN RECOGNITION

2023-10-02

THIS BOOK FEATURES HIGH QUALITY RESEARCH PAPERS PRESENTED AT THE 5TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE IN PATTERN RECOGNITION CIPR 2023 HELD AT DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING TECHNO MAIN SALT LAKE WEST BENGAL INDIA DURING MAY 27 28 2023 IT INCLUDES PRACTICAL DEVELOPMENT EXPERIENCES IN VARIOUS AREAS OF DATA ANALYSIS AND PATTERN RECOGNITION FOCUSING ON SOFT COMPUTING TECHNOLOGIES CLUSTERING AND CLASSIFICATION ALGORITHMS ROUGH SET AND FUZZY SET THEORY EVOLUTIONARY COMPUTATIONS NEURAL SCIENCE AND NEURAL NETWORK SYSTEMS IMAGE PROCESSING COMBINATORIAL PATTERN MATCHING SOCIAL NETWORK ANALYSIS AUDIO AND VIDEO DATA ANALYSIS DATA MINING IN DYNAMIC ENVIRONMENTS BIOINFORMATICS HYBRID COMPUTING BIG DATA ANALYTICS AND DEEP LEARNING IT ALSO PROVIDES INNOVATIVE SOLUTIONS TO THE CHALLENGES IN THESE AREAS AND DISCUSSES RECENT DEVELOPMENTS

PREDICTIVE ANALYTICS IN SYSTEM RELIABILITY

2022-09-08

THIS BOOK PROVIDES ENGINEERS AND RESEARCHERS KNOWLEDGE TO HELP THEM IN SYSTEM RELIABILITY ANALYSIS USING MACHINE LEARNING ARTIFICIAL INTELLIGENCE BIG DATA GENETIC ALGORITHM INFORMATION THEORY MULTI CRITERIA DECISION MAKING AND OTHER TECHNIQUES IT WILL ALSO BE USEFUL TO STUDENTS LEARNING RELIABILITY ENGINEERING THE BOOK BRINGS READERS UP TO DATE WITH HOW SYSTEM RELIABILITY RELATES TO THE LATEST TECHNIQUES OF AI BIG DATA GENETIC ALGORITHM INFORMATION THEORY AND MULTI CRITERIA DECISION MAKING AND POINTS TOWARD FUTURE DEVELOPMENTS IN THE SUBJECT

ADVANCES IN COMPUTERS

2014-08-22

SINCE ITS FIRST VOLUME IN 1960 ADVANCES IN COMPUTERS HAS PRESENTED DETAILED COVERAGE OF INNOVATIONS IN COMPUTER HARDWARE SOFTWARE THEORY DESIGN AND APPLICATIONS IT HAS ALSO PROVIDED CONTRIBUTORS WITH A MEDIUM IN WHICH THEY CAN EXPLORE THEIR SUBJECTS IN GREATER DEPTH AND BREADTH THAN JOURNAL ARTICLES USUALLY ALLOW AS A RESULT MANY ARTICLES HAVE BECOME STANDARD REFERENCES THAT CONTINUE TO BE OF SIGNIFICANT LASTING VALUE IN THIS RAPIDLY EXPANDING FIELD IN DEPTH SURVEYS AND TUTORIALS ON NEW COMPUTER TECHNOLOGY WELL KNOWN AUTHORS AND RESEARCHERS IN THE FIELD EXTENSIVE BIBLIOGRAPHIES WITH MOST CHAPTERS MANY OF THE VOLUMES ARE DEVOTED TO SINGLE THEMES OR SUBFIELDS OF COMPUTER SCIENCE

DEVELOPMENTS IN INFORMATION & KNOWLEDGE MANAGEMENT FOR BUSINESS APPLICATIONS

2021-08-15

THIS BOOK PROVIDES PRACTICAL KNOWLEDGE ON DIFFERENT ASPECTS OF INFORMATION AND KNOWLEDGE MANAGEMENT IN BUSINESSES IN CONTEMPORARY UNSTABLE TIME ENTERPRISES BUSINESSES DEAL WITH VARIOUS CHALLENGES SUCH AS LARGE SCALE COMPETITIONS HIGH LEVELS OF UNCERTAINTY AND RISK RUSH TECHNOLOGICAL ADVANCEMENTS WHILE INCREASING CUSTOMER REQUIREMENTS THUS BUSINESSES WORK CONTINUALLY ON IMPROVING EFFICIENCY OF THEIR OPERATIONS AND RESOURCES TOWARDS ENABLING SUSTAINABLE SOLUTIONS BASED ON THE KNOWLEDGE AND INFORMATION ACCUMULATED PREVIOUSLY CONSEQUENTLY THIS THIRD VOLUME OF OUR SUBLINE PERSISTS TO HIGHLIGHT DIFFERENT APPROACHES OF

HANDLING ENTERPRISE KNOWLEDGE INFORMATION MANAGEMENT DIRECTING TO THE IMPORTANCE OF UNCEASING PROGRESS OF STRUCTURAL MANAGEMENT FOR THE STEADY GROWTH WE LOOK FORWARD THAT THE WORKS OF THIS VOLUME CAN ENCOURAGE AND INITIATE FURTHER RESEARCH ON THIS TOPIC

SMART AND SUSTAINABLE INTELLIGENT SYSTEMS

2021-03-24

THE WORLD IS EXPERIENCING AN UNPRECEDENTED PERIOD OF CHANGE AND GROWTH THROUGH ALL THE ELECTRONIC AND TECHNOLOGICAL DEVELOPMENTS AND EVERYONE ON THE PLANET HAS BEEN IMPACTED WHAT WAS ONCE SCIENCE FICTION TODAY IT IS A REALITY THIS BOOK EXPLORES THE WORLD OF MANY OF ONCE UNTHINKABLE ADVANCEMENTS BY EXPLAINING CURRENT TECHNOLOGIES IN GREAT DETAIL EACH CHAPTER FOCUSES ON A DIFFERENT ASPECT MACHINE VISION PATTERN ANALYSIS AND IMAGE PROCESSING ADVANCED TRENDS IN COMPUTATIONAL INTELLIGENCE AND DATA ANALYTICS FUTURISTIC COMMUNICATION TECHNOLOGIES DISRUPTIVE TECHNOLOGIES FOR FUTURE SUSTAINABILITY THE CHAPTERS INCLUDE THE LIST OF TOPICS THAT SPANS ALL THE AREAS OF SMART INTELLIGENT SYSTEMS AND COMPUTING SUCH AS DATA MINING WITH SOFT COMPUTING EVOLUTIONARY COMPUTING QUANTUM COMPUTING EXPERT SYSTEMS NEXT GENERATION COMMUNICATION BLOCKCHAIN AND TRUST MANAGEMENT INTELLIGENT BIOMETRICS MULTI VALUED LOGICAL SYSTEMS CLOUD COMPUTING AND SECURITY ETC AN EXTENSIVE LIST OF BIBLIOGRAPHIC REFERENCES AT THE END OF EACH CHAPTER GUIDES THE READER TO PROBE FURTHER INTO APPLICATION AREA OF INTEREST TO HIM HER

DESIGNING THRIVING SYSTEMS

2019-04-10

THIS MONOGRAPH ILLUMINATES A DESIGN MINDSET FOR SYSTEMS ARTEFACTS THAT NOT ONLY SURVIVE BUT THRIVE OF ITSELF AN ARTEFACT IS DEVOID OF DESIGN QUALITY UNTIL ENCOUNTERED IN A SPECIFIC SOCIAL CONTEXT BY HUMAN ATTENDANTS DESIGN QUALITY IS THE AFFECT OF AN INTERTWINING OF A AN ARTEFACT S STRUCTURAL AND BEHAVIOR PROPERTIES B AN ATTENDANT HUMANLY CONCEPTION OF QUALITY AN APPRECIATIVE SYSTEM AND C THE ENFOLDING SOCIAL CONTEXT OF THEIR ENCOUNTER TO PURSUE QUALITY IN DESIGN IS TO INTERWEAVE THESE THREE STRANDS BOUND AS A DURABLE CORD THAT EVOKES A VISCERAL SATISFACTION OR THE DELIGHT OF A RINGING MUSICAL CHORD THE HUMAN

CONSCIOUSNESS OF DESIGN QUALITY IS FUNDAMENTALLY METAPHORIC AND DYNAMIC A PERCEPTION OF REALITY MEDIATED BY A PERSONAL VALUE DISPOSITION IN THE CONTINUUM OF EXPERIENCE LIVING MOMENT AFTER MOMENT BOTH THE ATTENDANT S METAPHORICAL APPRECIATION AND THEIR SENSE OF QUALITY EVOLVE AND THUS DESIGN QUALITY ISSUES FROM PERPETUAL CONCENTRIC CYCLES OF DESIGN CONSTRUCT EXPERIENCE LEARN ASSESS CALIBRATE OVER THE LIFE SPAN OF RELATIONSHIP WITH AN ARTEFACT DESIGN AS A VERB S PURPOSE IS TO SERVICE THE LIFE IN THAT RELATIONSHIP SUSTAIN ITS SURVIVAL AND HOPEFULLY RAISE THAT LIFE TO A STATE OF THRIVING DESIGN QUALITY MANIFESTS THROUGHOUT THE CYCLES OF DESIGN AS A VERB RATHER THAN AS A PRODUCT OF IT SUCH IS THE MINDSET IN WHICH THE DESIGNER MUST INDWELL AND THAT DESIGN EDUCATION MUST NURTURE WHILE ALL ARTEFACTS ARE SYSTEMS THE DOMAIN OF ARTEFACT DESIGN OF WHICH I AM MOST EXPERIENCED IS COMPUTING SYSTEMS THEREFORE I WILL REST UPON THAT DOMAIN TO EXPLORE A THEORY AND PRACTICE OF DESIGN AS A VERB DESIGNING THRIVING SYSTEMS

XXI JORNADAS DE INGENIERÍA A DEL SOFTWARE Y BASES DE DATOS

2020-07-29

LAS JORNADAS DE INGENIERÍA A DEL SOFTWARE Y BASES DE DATOS JISBD CONSTITUYEN EL FORO QUE CADA AÑO O REUNE A LA COMUNIDAD CIENTÍFICA ESPAÑOLA EN LAS ÁREAS DE INGENIERÍA A DEL SOFTWARE Y BASES DE DATOS Y SIEMPRE HAN ATRAÍDO EL INTERÉS DE GRUPOS DE INVESTIGACIÓN DE PORTUGAL E IBEROAMÉRICA EN ESTAS DOS ÁREAS JISBD ES ORGANIZADA POR LA SOCIEDAD DE INGENIERÍA A DE SOFTWARE Y TECNOLOGÍAS DE DESARROLLO DE SOFTWARE SISTEDES JUNTO A OTRAS DOS CONFERENCIAS JORNADAS DE PROGRAMACIÓN DECLARATIVA PROLE Y JORNADAS DE CIENCIA E INGENIERÍA A DE SERVICIOS JCIS LA VIGÉSIMO PRIMERA EDICIÓN DE JISBD ES UNO DE LOS QUINCE EVENTOS CIENTÍFICOS QUE INTEGRAN LA IV CONFERENCIA ESPAÑOLA DE INFORMÁTICA CEDI QUE SE CELEBRA EN SALAMANCA CEDI TIENE UNA PERIODICIDAD DE TRES AÑOS Y SU PROPÓSITO ES MOSTRAR A LA SOCIEDAD EL ESTADO ACTUAL DE LA INFORMÁTICA EN ESPAÑA EN LA EDICIÓN ACTUAL JISBD HA CONTINUADO CON LA ORGANIZACIÓN BASADA EN ÁREAS TEMÁTICAS O TRACKS PUESTA EN MARCHA EN LA EDICIÓN PREVIA LOS TIPOS DE CONTRIBUCIÓN HAN SIDO LOS CONSIDERADOS EN EDICIONES ANTERIORES ARTÍCULOS COMPLETOS ARTÍCULOS CORTOS ARTÍCULOS RELEVANTES Y DEMOS COMO NOVEDAD SE REALIZÓ UN LLAMAMIENTO A NUEVOS TRACKS DENTRO DE LA PRIMERA SOLICITUD DE CONTRIBUCIONES LANZADA A

PRINCIPIOS DE NOVIEMBRE DE 2015 DADO QUE NO SE RECIBIÓ NINGUNA SOLICITUD NO FUE NECESARIO APLICAR EL MECANISMO PREVISTO PARA DAR CABIDA A NUEVOS TRACKS POR TANTO JISBD 2016 INCLUYE LOS MISMOS TRACKS QUE EN LA EDICIÓN ANTERIOR ARQUITECTURAS DEL SOFTWARE Y VARIABILIDAD CALIDAD Y PRUEBAS DESARROLLO DE SOFTWARE DIRIGIDO POR MODELOS GESTIÓN DE DATOS INGENIERÍA DEL SOFTWARE GUIADA POR BARRERA SQUEDA INGENIERÍA Y SISTEMAS PERSASIVOS Y PROCESOS SOFTWARE Y METODOLOGÍAS Y DE NUEVO SE HA INCLUIDO EL TRACK ABIERTO PARA DAR CABIDA A LOS TRABAJOS QUE NO ENCAJAN EN NINGUNO DE LOS TRACKS ANTERIORES OTRA NOVEDAD HA TENIDO QUE VER CON LA MODALIDAD DE ARTÍCULOS RELEVANTES YA PUBLICADOS EN REVISTAS CON ÍNDICES DE IMPACTO O CONFERENCIAS INTERNACIONALES PRESTIGIOSAS EN LAS ÁREAS ASOCIADAS A UN DETERMINADO TRACK CON EL FIN DE FACILITAR EL PROCESO DE SELECCIÓN Y ASEGURAR LA CALIDAD DE ESTAS CONTRIBUCIONES SE HA ESTABLECIDO QUE UN TRABAJO RELEVANTE DEBE HABER SIDO PUBLICADO EN UNA REVISTA EN EL CUARTIL Q1 DE JCR O EN UNA DE LAS DOS CONFERENCIAS QUE HA SELECCIONADO CADA TRACK CABE DESTACAR UN INCREMENTO SIGNIFICATIVO EN EL NÚMERO DE CONTRIBUCIONES RECIBIDAS CON RESPECTO A LAS TRES EDICIONES ANTERIORES MIENTRAS EN 2015 SE RECIBIERON 70 CONTRIBUCIONES 54 EN 2014 Y 64 EN 2013 EN ESTA EDICIÓN SE HAN RECIBIDO 94 CONTRIBUCIONES 34 COMPLETOS 29 CORTOS 25 RELEVANTES Y 6 DEMOS EL NÚMERO DE TRABAJOS ACEPTADOS HA SIDO 79 30 COMPLETOS 21 CORTOS 24 RELEVANTES Y 5 DEMOS ESTOS NÚMEROS PARECEN AVALAR LA NUEVA ORGANIZACIÓN EN TORNO A ÁREAS TEMÁTICAS Y QUE LAS JISBD PUEDEN JUGAR UN IMPORTANTE PAPEL PARA DINAMIZAR LAS DIFERENTES COMUNIDADES RELACIONADAS CON LA INGENIERÍA DEL SOFTWARE Y LAS BASES DE DATOS EN NUESTRO PAÍS LA CONFERENCIA INVITADA SERÁ IMPARTIDA POR ANDREI VORONKOK PRESTIGIOSO INVESTIGADOR DE LA UNIVERSIDAD DE MANCHESTER QUE HA RECIBIDO EL PREMIO HERBRAND POR SUS CONTRIBUCIONES AL RAZONAMIENTO AUTOMÁTICO Y QUE ES CREADOR DE EASYCHAIR UNA DE LAS HERRAMIENTAS DE GESTIÓN DE CONFERENCIAS MÁS EXTENDIDAS EN EL MUNDO EL DR VORONKOK ANALIZARÁ LOS DESAFÍOS A LOS QUE SE HA DEBIDO HACER FRENTE EN LA CONSTRUCCIÓN DE EASYCHAIR DESDE EL PUNTO DE VISTA DEL DISEÑO DE SOFTWARE Y LA GESTIÓN DE LOS DATOS ASÍ COMO DE LOS RETOS PARA EL FUTURO ADEMÁS LAS CONFERENCIAS INVITADAS DE JCIS TOMMI MIKKONEN INSTITUTE OF PERVASIVE COMPUTING TAMPERE FINLAND Y DE PROLE ARNAUD GOTLIEB SIMULA RESEARCH LABORATORY NORWAY QUE SE CELEBRAN EN PARALELO EN ESTA OCASIÓN SON TAMBIÉN PARTE DEL PROGRAMA DE JISBD 2016

COMPUTATIONAL SCIENCE AND ITS APPLICATIONS – *ICCSA 2019*

2019-06-28

THE SIX VOLUMES LNCS 11619 11624 CONSTITUTE THE REFEREED PROCEEDINGS OF THE 19TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE AND ITS APPLICATIONS ICCSA 2019 HELD IN SAINT PETERSBURG RUSSIA IN JULY 2019 THE 64 FULL PAPERS 10 SHORT PAPERS AND 259 WORKSHOP PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM NUMEROUS SUBMISSIONS THE 64 FULL PAPERS ARE ORGANIZED IN THE FOLLOWING FIVE GENERAL TRACKS COMPUTATIONAL METHODS ALGORITHMS AND SCIENTIFIC APPLICATIONS HIGH PERFORMANCE COMPUTING AND NETWORKS GEOMETRIC MODELING GRAPHICS AND VISUALIZATION ADVANCED AND EMERGING APPLICATIONS AND INFORMATION SYSTEMS AND TECHNOLOGIES THE 259 WORKSHOP PAPERS WERE PRESENTED AT 33 WORKSHOPS IN VARIOUS AREAS OF COMPUTATIONAL SCIENCES RANGING FROM COMPUTATIONAL SCIENCE TECHNOLOGIES TO SPECIFIC AREAS OF COMPUTATIONAL SCIENCES SUCH AS SOFTWARE ENGINEERING SECURITY ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGIES

VIRTUAL TECHNOLOGIES AND E-COLLABORATION FOR THE FUTURE OF GLOBAL BUSINESS

2022-06-17

EFFECTIVE COLLABORATION TECHNOLOGIES AND TOOLS ARE CRITICAL TO THE DEVELOPMENT OF CONTEMPORARY BUSINESS LANDSCAPES ESPECIALLY AS MORE BUSINESSES OFFER FULLY REMOTE OR HYBRID WORK OPTIONS EFFECTIVE COMMUNICATION IS KEY TO INCREASING WORK PRODUCTIVITY AND ABSOLUTELY ESSENTIAL FOR PROJECT MANAGERS AND TEAMS WORKING TO ACHIEVE THEIR END GOALS INDIVIDUALS AND BUSINESSES CAN BENEFIT FROM RESEARCH ON THE DESIGN EXECUTION AND ASSESSMENT OF COLLABORATION APPLICATIONS AS THEY STRIVE FOR EFFECTIVE TOOLS TO INCREASE VIRTUAL FORMS OF COMMUNICATION IT IS ESSENTIAL THAT BUSINESSES REMAIN UP TO DATE WITH AND INCORPORATE THESE EMERGING VIRTUAL TECHNOLOGIES AND E COLLABORATION INTO THEIR PRACTICES VIRTUAL TECHNOLOGIES AND E COLLABORATION FOR THE FUTURE OF GLOBAL BUSINESS EXAMINES THE MOST RECENT FINDINGS IN KNOWLEDGE INTENSIVE COLLABORATIVE ENVIRONMENTS WITH A FOCUS ON METHODOLOGIES AND

STRATEGIES FOR INCREASING ONLINE COLLABORATION IT DISCUSSES THE EMERGING TECHNOLOGIES AND TOOLS FOR COLLABORATION IN VIRTUAL ENVIRONMENTS AND INCLUDES FINDINGS IN AUTOMATION COMPUTING AND INTELLIGENT INFORMATION SYSTEMS AS WELL AS STATE OF THE ART SOLUTIONS COVERING VARIOUS ISSUES AND CHALLENGES COVERING TOPICS SUCH AS CAPACITY BUILDING GROUPWARE SYSTEMS AND KNOWLEDGE MANAGEMENT THIS PREMIER REFERENCE SOURCE IS AN ESSENTIAL RESOURCE FOR BUSINESS LEADERS AND MANAGERS ENTREPRENEURS BOARD DIRECTORS FACULTY AND STUDENTS OF HIGHER EDUCATION TECHNOLOGY DIRECTORS AND MANAGERS IT PROFESSIONALS RESEARCHERS AND ACADEMICIANS

COMPUTER SUPPORTED EDUCATION

2019-06-19

THIS BOOK CONSTITUTES THE THOROUGHLY REFEREED PROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE ON COMPUTER SUPPORTED EDUCATION CSEDU 2018 HELD IN FUNCHAL MADEIRA PORTUGAL IN MARCH 2018 THE 27 REVISED FULL PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 193 SUBMISSIONS THE PAPERS DEAL WITH THE FOLLOWING TOPICS NEW EDUCATIONAL ENVIRONMENTS BEST PRACTICES AND CASE STUDIES OF INNOVATIVE TECHNOLOGY BASED LEARNING STRATEGIES INSTITUTIONAL POLICIES ON COMPUTER SUPPORTED EDUCATION INCLUDING OPEN AND DISTANCE EDUCATION

COMPOSING MODEL-BASED ANALYSIS TOOLS

2021-12-02

THIS BOOK PRESENTS JOINT WORKS OF MEMBERS OF THE SOFTWARE ENGINEERING AND FORMAL METHODS COMMUNITIES WITH REPRESENTATIVES FROM INDUSTRY WITH THE GOAL OF ESTABLISHING THE FOUNDATIONS FOR A COMMON UNDERSTANDING OF THE NEEDS FOR MORE FLEXIBILITY IN MODEL DRIVEN ENGINEERING IT IS BASED ON THE DAGSTUHL SEMINAR 19481 COMPOSING MODEL BASED ANALYSIS TOOLS WHICH WAS HELD NOVEMBER 24 TO 29 2019 AT SCHLOSS DAGSTUHL GERMANY WHERE CURRENT CHALLENGES THEIR BACKGROUND AND CONCEPTS TO ADDRESS THEM WERE DISCUSSED THE BOOK IS STRUCTURED IN TWO PARTS AND ORGANIZED AROUND FIVE FUNDAMENTAL CORE ASPECTS OF THE SUBJECT 1 THE COMPOSITION OF LANGUAGES MODELS AND ANALYSES 2 THE INTEGRATION AND ORCHESTRATION OF ANALYSIS TOOLS 3 THE CONTINUAL ANALYSIS OF MODELS 4 THE EXPLOITATION OF RESULTS AND 5 THE WAY TO HANDLE UNCERTAINTY IN MODEL BASED DEVELOPMENTS AFTER A

CHAPTER ON FOUNDATIONS AND COMMON TERMINOLOGY AND A CHAPTER ON CHALLENGES IN THE FIELD ONE CHAPTER IS DEVOTED TO EACH OF THE ABOVE FIVE CORE ASPECTS IN THE FIRST PART OF THE BOOK THESE CORE CHAPTERS ARE ACCOMPANIED BY ADDITIONAL CASE STUDIES IN THE SECOND PART OF THE BOOK IN WHICH SPECIFIC TOOLS AND EXPERIENCES ARE PRESENTED IN MORE DETAIL TO ILLUSTRATE THE CONCEPTS AND IDEAS PREVIOUSLY INTRODUCED THE BOOK MAINLY TARGETS RESEARCHERS IN THE FIELDS OF SOFTWARE ENGINEERING AND FORMAL METHODS AS WELL AS SOFTWARE ENGINEERS FROM INDUSTRY WITH BASIC FAMILIARITY WITH QUALITY PROPERTIES MODEL DRIVEN ENGINEERING AND ANALYSIS TOOLS FROM READING THE BOOK RESEARCHERS WILL RECEIVE AN OVERVIEW OF THE STATE OF THE ART AND CURRENT CHALLENGES RESEARCH DIRECTIONS AND RECENT CONCEPTS WHILE PRACTITIONERS WILL BE INTERESTED TO LEARN ABOUT CONCRETE TOOLS AND PRACTICAL APPLICATIONS IN THE CONTEXT OF CASE STUDIES

SOFTWARE DESIGN

2003

THIS TEXT PROVIDES A BALANCED VIEW OF THE VARIOUS SOFTWARE DESIGN METHODOLOGIES MOST WIDELY USED BY PRACTITIONERS IT ADVISES STUDENTS OF THE STRENGTHS AND LIMITATIONS OF EACH METHOD WITH A VIEW TO HELPING THEM TO JUDGE WHICH TO ADOPT WHEN WORKING IN THE FIELD

MASTERING PHP DESIGN PATTERNS

2016-09-28

DEVELOP ROBUST AND REUSABLE CODE USING A MULTITUDE OF DESIGN PATTERNS FOR PHP 7 ABOUT THIS BOOK LEARN ABOUT ADVANCED DESIGN PATTERNS IN PHP 7 UNDERSTAND ENHANCED ARCHITECTURAL PATTERNS LEARN TO IMPLEMENT REUSABLE DESIGN PATTERNS TO ADDRESS COMMON RECURRING PROBLEMS WHO THIS BOOK IS FOR THIS BOOK IS FOR PHP DEVELOPERS WHO WISH TO HAVE BETTER ORGANIZATION STRUCTURE OVER THEIR CODE THROUGH LEARNING COMMON METHODOLOGIES TO SOLVE ARCHITECTURAL PROBLEMS AGAINST A BACKDROP OF LEARNING NEW FUNCTIONALITY IN PHP 7 WHAT YOU WILL LEARN RECOGNIZE RECURRING PROBLEMS IN YOUR CODE WITH ANTI PATTERNS UNCOVER OBJECT CREATION MECHANISMS USING CREATIONAL PATTERNS USE STRUCTURAL DESIGN PATTERNS TO EASILY ACCESS YOUR CODE ADDRESS COMMON ISSUES ENCOUNTERED WHEN LINKING OBJECTS USING THE SPLOBSERVER CLASSES IN PHP 7 ACHIEVE A COMMON STYLE OF CODING WITH

ARCHITECTURAL PATTERNS WRITE REUSABLE CODE FOR COMMON MVC FRAMEWORKS SUCH AS ZEND LARAVEL AND SYMFONY GET TO KNOW THE BEST PRACTICES ASSOCIATED WITH DESIGN PATTERNS WHEN USED WITH PHP 7 IN DETAIL DESIGN PATTERNS ARE A CLEVER WAY TO SOLVE COMMON ARCHITECTURAL ISSUES THAT ARISE DURING SOFTWARE DEVELOPMENT WITH AN INCREASE IN DEMAND FOR ENHANCED PROGRAMMING TECHNIQUES AND THE VERSATILE NATURE OF PHP A DEEP UNDERSTANDING OF PHP DESIGN PATTERNS IS CRITICAL TO ACHIEVE EFFICIENCY WHILE CODING THIS COMPREHENSIVE GUIDE WILL SHOW YOU HOW TO ACHIEVE BETTER ORGANIZATION STRUCTURE OVER YOUR CODE THROUGH LEARNING COMMON METHODOLOGIES TO SOLVE ARCHITECTURAL PROBLEMS YOU LL ALSO LEARN ABOUT THE NEW FUNCTIONALITIES THAT PHP 7 HAS TO OFFER STARTING WITH A BRIEF INTRODUCTION TO DESIGN PATTERNS YOU QUICKLY DIVE DEEP INTO THE THREE MAIN ARCHITECTURAL PATTERNS CREATIONAL BEHAVIORAL AND STRUCTURAL POPULARLY KNOWN AS THE GANG OF FOUR PATTERNS OVER THE COURSE OF THE BOOK YOU WILL GET A DEEP UNDERSTANDING OF OBJECT CREATION MECHANISMS ADVANCED TECHNIQUES THAT ADDRESS ISSUES CONCERNED WITH LINKING OBJECTS TOGETHER AND IMPROVED METHODS TO ACCESS YOUR CODE YOU WILL ALSO LEARN ABOUT ANTI PATTERNS AND THE BEST METHODOLOGIES TO ADOPT WHEN BUILDING A PHP 7 APPLICATION WITH A CONCLUDING CHAPTER ON BEST PRACTICES THIS BOOK IS A COMPLETE GUIDE THAT WILL EQUIP YOU TO UTILIZE DESIGN PATTERNS IN PHP 7 TO ACHIEVE MAXIMUM PRODUCTIVITY ENSURING AN ENHANCED SOFTWARE DEVELOPMENT EXPERIENCE STYLE AND APPROACH THE BOOK COVERS ADVANCED DESIGN PATTERNS IN DETAIL IN PHP 7 WITH THE HELP OF RICH CODE BASED EXAMPLES

ORACLE CERTIFIED PROFESSIONAL JAVA SE 8 PROGRAMMER EXAM 1Z0-809: A COMPREHENSIVE OCPJP 8 CERTIFICATION GUIDE

2015-12-30

THIS BOOK IS A COMPREHENSIVE STEP BY STEP AND ONE STOP GUIDE FOR THE JAVA SE 8 PROGRAMMER II EXAM 1Z0 809 SALIENT FEATURES OF THIS BOOK INCLUDE 100 COVERAGE OF THE EXAM TOPICS A FULL LENGTH MOCK EXAM PRACTICE EXAM QUESTIONS EXAM NOTES AND TIPS ORACLE CERTIFIED PROFESSIONAL JAVA SE 8 PROGRAMMER II GUIDE EXAM 1Z0 809 IS A COMPREHENSIVE GUIDE FOR THE OCPJP 8 EXAM THE BOOK STARTS BY ANSWERING FREQUENTLY ASKED QUESTIONS ABOUT THE OCPJP 8 EXAM CHAPTER 1 THE BOOK MAPS EACH EXAM TOPIC INTO A CHAPTER AND COVERS 100 OF THE EXAM TOPICS NEXT 12 CHAPTERS EXAM TOPICS ARE

DISCUSSED USING NUMEROUS PROGRAMMING AND REAL WORLD EXAMPLES EACH CHAPTER ENDS WITH PRACTICE EXAM QUESTIONS AND A QUICK SUMMARY THAT REVISES KEY CONCEPTS COVERED IN THE CHAPTER FROM EXAM PERSPECTIVE AFTER READING THE MAIN CHAPTERS YOU CAN TAKE THE FULL LENGTH MOCK EXAM TO ENSURE THAT YOU HAVE ENOUGH PRACTICE BEFORE ACTUALLY TAKING THE EXAM CHAPTER 14 IF YOU ARE AN OCPJP 8 EXAM ASPIRANT THIS BOOK IS CERTAINLY FOR YOU THIS BOOK ASSUMES THAT YOU ARE ALREADY FAMILIAR WITH JAVA FUNDAMENTALS THAT IS IN LINE WITH THE PREREQUISITE OF HAVING A OCAJP 8 CERTIFICATION BEFORE YOU TAKE UP THE OCPJP 8 EXAM THIS BOOK WILL BE A DELECTABLE READ TO YOU BECAUSE OF ITS SIMPLE LANGUAGE EXAMPLE DRIVEN APPROACH EASY TO READ STYLE AND COMPLETE FOCUS TOWARDS THE EXAM SALIENT FEATURES IN DEPTH AND 100 COVERAGE OF ALL 12 EXAM TOPICS FOR THE CERTIFICATION NUMEROUS ILLUSTRATIVE PROGRAMMING AND REAL WORLD EXAMPLES HUNDREDS OF PRACTICE EXAM QUESTIONS INCLUDING A FULL LENGTH MOCK EXAM WHAT YOU WILL LEARN HAVE THE NECESSARY KNOWLEDGE TO CLEAR THE EXAM SINCE 100 OF THE EXAM TOPICS ARE COVERED TO THE REQUIRED DEPTH CLEARLY UNDERSTAND THE SCOPE AND OBJECTIVES OF THE EXAM THE TECHNICAL TOPICS COVERED IN THE EXAM AND TYPE AND LEVEL OF DIFFICULTY OF THE EXAM QUESTIONS IN SHORT YOU WILL CLEARLY KNOW WHAT S EXACTLY REQUIRED FOR PASSING THE EXAM GET INTO AN EXAM MINDSET BY TRYING OUT HUNDREDS OF PRACTICE EXAM QUESTIONS

FRONTIERS IN SOFTWARE ENGINEERING

2022-01-06

THIS VOLUME CONSTITUTES SELECTED PAPERS PRESENTED AT THE FIRST INTERNATIONAL CONFERENCE ON FRONTIERS IN SOFTWARE ENGINEERING ICFSE 2021 HEKD IN INNOPOLIS RUSSIA IN JUNE 2021 THE 13 PRESENTED FULL PAPERS WERE THOROUGHLY REVIEWED AND SELECTED FROM 37 SUBMISSIONS THE PAPERS PRESENT DISCUSSION ON SUCH TOPICS AS SOFTWARE ENGINEERING TOOLS AND ENVIRONMENTS EMPIRICAL SOFTWARE ENGINEERING MODEL DRIVEN AND DOMAIN SPECIFIC ENGINEERING HUMAN FACTORS AND SOCIAL ASPECTS OF SOFTWARE ENGINEERING COOPERATIVE DISTRIBUTED AND GLOBAL SOFTWARE ENGINEERING COMPONENT BASED SOFTWARE ENGINEERING SOFTWARE METRICS AND SOFTWARE ENGINEERING FOR GREEN AND SUSTAINABLE TECHNOLOGIES

INFORMATION SCIENCE AND APPLICATIONS

2021-04-02

THIS BOOK PRESENTS SELECT PROCEEDINGS OF 11TH INTERNATIONAL CONFERENCE ON INFORMATION SCIENCE AND APPLICATIONS 2020 ICISA 2020 AND PROVIDES A SNAPSHOT OF THE LATEST ISSUES ENCOUNTERED IN TECHNICAL CONVERGENCE AND CONVERGENCES OF SECURITY TECHNOLOGY IT EXPLORES HOW INFORMATION SCIENCE IS CORE TO MOST CURRENT RESEARCH INDUSTRIAL AND COMMERCIAL ACTIVITIES AND CONSISTS OF CONTRIBUTIONS COVERING TOPICS INCLUDING UBIQUITOUS COMPUTING NETWORKS AND INFORMATION SYSTEMS MULTIMEDIA AND VISUALIZATION MIDDLEWARE AND OPERATING SYSTEMS SECURITY AND PRIVACY DATA MINING AND ARTIFICIAL INTELLIGENCE SOFTWARE ENGINEERING AND TECHNOLOGY ALSO THE PROCEEDINGS INTRODUCE THE MOST RECENT INFORMATION TECHNOLOGY AND IDEAS APPLICATIONS AND PROBLEMS RELATED TO TECHNOLOGY CONVERGENCE ILLUSTRATED THROUGH CASE STUDIES AND REVIEWS CONVERGING EXISTING SECURITY TECHNIQUES THROUGH THIS BOOK READERS CAN GAIN AN UNDERSTANDING OF THE CURRENT STATE OF THE ART INFORMATION STRATEGIES AND TECHNOLOGIES OF CONVERGENCE SECURITY

AGILE SOFTWARE DEVELOPMENT

2023-02-09

AGILE SOFTWARE DEVELOPMENT A UNIQUE TITLE THAT INTRODUCES THE WHOLE RANGE OF AGILE SOFTWARE DEVELOPMENT PROCESSES FROM THE FUNDAMENTAL CONCEPTS TO THE HIGHEST LEVELS OF APPLICATIONS SUCH AS REQUIREMENT ANALYSIS SOFTWARE TESTING QUALITY ASSURANCE AND RISK MANAGEMENT AGILE SOFTWARE DEVELOPMENT ASD HAS BECOME A POPULAR TECHNOLOGY BECAUSE ITS METHODS APPLY TO ANY PROGRAMMING PARADIGM IT IS IMPORTANT IN THE SOFTWARE DEVELOPMENT PROCESS BECAUSE IT EMPHASIZES INCREMENTAL DELIVERY TEAM COLLABORATION CONTINUOUS PLANNING AND LEARNING OVER DELIVERING EVERYTHING AT ONCE NEAR THE END AGILE HAS GAINED POPULARITY AS A RESULT OF ITS USE OF VARIOUS FRAMEWORKS METHODS AND TECHNIQUES TO IMPROVE SOFTWARE QUALITY SCRUM IS A MAJOR AGILE FRAMEWORK THAT HAS BEEN WIDELY ADOPTED BY THE SOFTWARE DEVELOPMENT COMMUNITY METAHEURISTIC TECHNIQUES HAVE BEEN USED IN THE AGILE SOFTWARE DEVELOPMENT PROCESS TO IMPROVE SOFTWARE QUALITY AND RELIABILITY THESE TECHNIQUES NOT ONLY IMPROVE QUALITY AND RELIABILITY BUT ALSO TEST CASES RESULTING IN COST

EFFECTIVE AND TIME EFFECTIVE SOFTWARE HOWEVER MANY SIGNIFICANT RESEARCH CHALLENGES MUST BE ADDRESSED TO PUT SUCH ASD CAPABILITIES INTO PRACTICE WITH THE USE OF DIVERSE TECHNIQUES GUIDING PRINCIPLES ARTIFICIAL INTELLIGENCE SOFT COMPUTING AND MACHINE LEARNING THIS BOOK SEEKS TO STUDY THEORETICAL AND TECHNOLOGICAL RESEARCH FINDINGS ON ALL FACETS OF ASD ALSO IT SHEDS LIGHT ON THE LATEST TRENDS CHALLENGES AND APPLICATIONS IN THE AREA OF ASD THIS BOOK EXPLORES THE THEORETICAL AS WELL AS THE TECHNICAL RESEARCH OUTCOMES ON ALL THE ASPECTS OF AGILE SOFTWARE DEVELOPMENT BY USING VARIOUS METHODS PRINCIPLES ARTIFICIAL INTELLIGENCE SOFT COMPUTING AND MACHINE LEARNING AUDIENCE THE BOOK IS DESIGNED FOR COMPUTER SCIENTISTS AND SOFTWARE ENGINEERS BOTH IN RESEARCH AND INDUSTRY GRADUATE AND POSTGRADUATE STUDENTS WILL FIND THE BOOK ACCESSIBLE AS WELL

MODEL DRIVEN ENGINEERING LANGUAGES AND SYSTEMS

2011-10-12

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON MODEL DRIVEN ENGINEERING LANGUAGES AND SYSTEMS MODELS 2011 HELD IN WELLINGTON NEW ZEALAND IN OCTOBER 2011 THE PAPERS ADDRESS A WIDE RANGE OF TOPICS IN RESEARCH FOUNDATIONS TRACK AND PRACTICE APPLICATIONS TRACK FOR THE FIRST TIME A NEW CATEGORY OF RESEARCH PAPERS VISION PAPERS ARE INCLUDED PRESENTING OUTSIDE THE BOX THINKING THE FOUNDATIONS TRACK RECEIVED 167 FULL PAPER SUBMISSIONS OF WHICH 34 WERE SELECTED FOR PRESENTATION OUT OF THESE 3 PAPERS WERE VISION PAPERS THE APPLICATION TRACK RECEIVED 27 SUBMISSIONS OF WHICH 13 PAPERS WERE SELECTED FOR PRESENTATION THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS ON MODEL TRANSFORMATION MODEL COMPLEXITY ASPECT ORIENTED MODELING ANALYSIS AND COMPREHENSION OF MODELS DOMAIN SPECIFIC MODELING MODELS FOR EMBEDDED SYSTEMS MODEL SYNCHRONIZATION MODEL BASED RESOURCE MANAGEMENT ANALYSIS OF CLASS DIAGRAMS VERIFICATION AND VALIDATION REFACTORING MODELS MODELING VISIONS LOGICS AND MODELING DEVELOPMENT METHODS AND MODEL INTEGRATION AND COLLABORATION

ADVANCES IN COMPUTATIONAL INTELLIGENCE AND COMMUNICATION TECHNOLOGY

2020-06-18

THIS BOOK FEATURES HIGH QUALITY PAPERS PRESENTED AT THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMMUNICATION TECHNOLOGY CICT 2019 ORGANIZED BY ABES ENGINEERING COLLEGE GHAZIABAD INDIA AND HELD FROM FEBRUARY 22 TO 23 2019 IT INCLUDES THE LATEST ADVANCES AND RESEARCH FINDINGS IN FIELDS OF COMPUTATIONAL SCIENCE AND COMMUNICATION SUCH AS COMMUNICATION NETWORKING WEB INFORMATICS HARDWARE AND SOFTWARE DESIGNS DISTRIBUTED PARALLEL PROCESSING ADVANCED SOFTWARE ENGINEERING ADVANCED DATABASE MANAGEMENT SYSTEMS AND BIOINFORMATICS AS SUCH IT IS OF INTEREST TO RESEARCH SCHOLARS STUDENTS AND ENGINEERS AROUND THE GLOBE

DATA SCIENCE AND INNOVATIONS FOR INTELLIGENT SYSTEMS

2021-10-01

DATA SCIENCE IS AN EMERGING FIELD AND INNOVATIONS IN IT NEED TO BE EXPLORED FOR THE SUCCESS OF SOCIETY 5 0 THIS BOOK NOT ONLY FOCUSES ON THE PRACTICAL APPLICATIONS OF DATA SCIENCE TO ACHIEVE COMPUTATIONAL EXCELLENCE BUT ALSO DIGS DEEP INTO THE ISSUES AND IMPLICATIONS OF INTELLIGENT SYSTEMS THIS BOOK HIGHLIGHTS INNOVATIONS IN DATA SCIENCE TO ACHIEVE COMPUTATIONAL EXCELLENCE THAT CAN OPTIMIZE PERFORMANCE OF SMART APPLICATIONS THE BOOK FOCUSES ON METHODOLOGIES FRAMEWORK DESIGN ISSUES TOOLS ARCHITECTURES AND TECHNOLOGIES NECESSARY TO DEVELOP AND UNDERSTAND DATA SCIENCE AND ITS EMERGING APPLICATIONS IN THE PRESENT ERA THIS BOOK WILL BE USEFUL FOR THE RESEARCH COMMUNITY START UP ENTREPRENEURS ACADEMICIANS AND DATA CENTERED INDUSTRIES AND PROFESSORS THAT ARE INTERESTED IN EXPLORING INNOVATIONS IN VARIED APPLICATIONS AND AREAS OF DATA SCIENCE

SAFETY AND SECURITY OF CYBER-PHYSICAL SYSTEMS

2022-07-20

CYBER PHYSICAL SYSTEMS CPSS CONSIST OF SOFTWARE CONTROLLED COMPUTING DEVICES COMMUNICATING WITH EACH OTHER AND INTERACTING WITH THE PHYSICAL WORLD THROUGH SENSORS AND ACTUATORS BECAUSE MOST OF THE FUNCTIONALITY OF A CPS IS IMPLEMENTED IN SOFTWARE THE SOFTWARE IS OF

CRUCIAL IMPORTANCE FOR THE SAFETY AND SECURITY OF THE CPS THIS BOOK PRESENTS PRINCIPLE BASED ENGINEERING FOR THE DEVELOPMENT AND OPERATION OF DEPENDABLE SOFTWARE THE KNOWLEDGE IN THIS BOOK ADDRESSES ORGANIZATIONS THAT WANT TO STRENGTHEN THEIR METHODOLOGIES TO BUILD SAFE AND SECURE SOFTWARE FOR MISSION CRITICAL CYBER PHYSICAL SYSTEMS THE BOOK PRESENTS A SUCCESSFUL STRATEGY FOR THE MANAGEMENT OF VULNERABILITIES THREATS AND FAILURES IN MISSION CRITICAL CYBER PHYSICAL SYSTEMS OFFERS DEEP PRACTICAL INSIGHT INTO PRINCIPLE BASED SOFTWARE DEVELOPMENT 62 PRINCIPLES ARE INTRODUCED AND CATALOGED INTO FIVE CATEGORIES BUSINESS ORGANIZATION GENERAL PRINCIPLES SAFETY SECURITY AND RISK MANAGEMENT PRINCIPLES PROVIDES DIRECT GUIDANCE ON ARCHITECTING AND OPERATING DEPENDABLE CYBER PHYSICAL SYSTEMS FOR SOFTWARE MANAGERS AND ARCHITECTS

SOFTWARE ENGINEERING FOR VARIABILITY INTENSIVE SYSTEMS

2019-01-15

THIS BOOK ADDRESSES THE CHALLENGES IN THE SOFTWARE ENGINEERING OF VARIABILITY INTENSIVE SYSTEMS VARIABILITY INTENSIVE SYSTEMS CAN SUPPORT DIFFERENT USAGE SCENARIOS BY ACCOMMODATING DIFFERENT AND UNFORESEEN FEATURES AND QUALITIES THE BOOK FEATURES ACADEMIC AND INDUSTRIAL CONTRIBUTIONS THAT DISCUSS THE CHALLENGES IN DEVELOPING MAINTAINING AND EVOLVING SYSTEMS CLOUD AND MOBILE SERVICES FOR VARIABILITY INTENSIVE SOFTWARE SYSTEMS AND THE SCALABILITY REQUIREMENTS THEY IMPLY THE BOOK EXPLORES SOFTWARE ENGINEERING APPROACHES THAT CAN EFFICIENTLY DEAL WITH VARIABILITY INTENSIVE SYSTEMS AS WELL AS APPLICATIONS AND USE CASES BENEFITING FROM VARIABILITY INTENSIVE SYSTEMS

PROCEEDINGS OF THE INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY

2016-06-04

THIS VOLUME CONTAINS 69 PAPERS PRESENTED AT ICICT 2015 INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY THE CONFERENCE WAS HELD DURING 9TH AND 10TH OCTOBER 2015 UDAIPUR INDIA AND ORGANIZED BY CSI UDAIPUR CHAPTER DIVISION IV SIG WNS SIG E AGRICULTURE IN ASSOCIATION

WITH ACM UDAIPUR PROFESSIONAL CHAPTER THE INSTITUTION OF ENGINEERS INDIA UDAIPUR LOCAL CENTRE AND MINING ENGINEERS ASSOCIATION OF INDIA RAJASTHAN UDAIPUR CHAPTER THIS VOLUME CONTAINS PAPERS MAINLY FOCUSED ON ICT FOR MANAGERIAL APPLICATIONS E GOVERNANCE IOT AND E MINING

Pro PHP Refactoring

2011-01-10

MANY BUSINESSES AND ORGANIZATIONS DEPEND ON OLDER HIGH VALUE PHP SOFTWARE THAT RISKS ABANDONMENT BECAUSE IT IS IMPOSSIBLE TO MAINTAIN THE REASONS FOR THIS MAY BE THAT THE SOFTWARE IS NOT WELL DESIGNED THERE IS ONLY ONE DEVELOPER THE ONE WHO CREATED THE SYSTEM WHO CAN DEVELOP IT BECAUSE HE DIDN T USE COMMON DESIGN PATTERNS AND DOCUMENTATION OR THE CODE IS PROCEDURAL NOT OBJECT ORIENTED WITH THIS BOOK YOU LL LEARN TO IDENTIFY PROBLEM CODE AND REFACTOR IT TO CREATE MORE EFFECTIVE APPLICATIONS USING TEST DRIVEN DESIGN

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