Faculty of Business

Proposed Honours Project Topics

2013

Discipline: Accounting

• How do Australian local government organisations cost and account for their outsourcing decisions?
• What are the deficiencies of Australian local government accounting systems in terms of providing information useful for managers to make appropriate decisions?
• What do Australian local government managers perceive to be the greatest challenges in attempting to improve their internal and external accounting systems?
• How do academic accounting researchers choose their research topics?
• What is the current state of historical research in accounting concerning Australia and what avenues remain to be more fully explored?
• What inroads have the specialist accounting history journals made into the mainstream scholarly accounting journals?

Contact: A/Prof Jayne Bisman
Campus: Bathurst
Discipline: Accounting
Tel: +61 2 63384101  email: jbisman@csu.edu.au

• What types of information do government social service agencies request from indigenous clients and why?
• Reporting of performance and social impact by Australian social service organisations
• Differences in reporting by faith based organisations
• Differences in accountability to stakeholder groups of not-for-profits
• Governance issues of not-for-profits
• Changing Reporting requirements post introduction of Australian Charities and Not-for-profits Commission (ACNC)
• Measures of social impact and effectiveness
• Grant applications and reporting to government
• AASB Reduced Disclosure Regime
• Reporting issues relating to accountants in the Australian public sector

Contact: Mr Ken Crofts
Campus: Bathurst
Discipline: Accounting
Tel: +61 2 63384055  email: kcrofts@csu.edu.au
Discipline: Economics/Finance

- Regional business issues
- Regional labour market
- Chinese and Indian investment climate
- Capital market analysis

Contact: Dr PK Basu
Campus: Bathurst
Discipline: Economics/Finance
Tel: +61 2 63384577 email: pbasu@csu.edu.au

- Trends, patterns and determinants of foreign direct investment in Australia/China
- Product fragmentation in Australia’s trade
- Role of migrant workers in meeting labour market needs in regional Australia

Contact: Prof Kishor Sharma
Campus: Wagga Wagga
Discipline: Economics/Finance
Tel: +61 2 69332752 email: ksharma@csu.edu.au
Discipline: Information Technology

- Design and implementation in C of the package importing mesh into CFX-Pre
- Numerical simulation of two-dimensional lid-driven cavity flows in Matlab
- Numerical simulation of two-dimensional backward-facing step flows in Matlab

Contact: Dr Jan Z. Li
Campus: Albury
Discipline: Information Technology
Tel: +61 2 60519604 email: jail@csu.edu.au

- How to visualize facebook?
- How to use online social networks to improve information seeking?
- An adaption model of cloud computing for Australian regional business
- A novel application of Internet of things

Contact: Dr Xiaodi Hung
Campus: Albury
Discipline: Information Technology
Tel: +61 2 60519652 email: xhuang@csu.edu.au

- Data summarization using cluster classification technique
- Malware analysis in RFID
- Security in social media
- Analysis of malicious activity in Android application

Contact: Dr Rafiqul Islam
Campus: Albury
Discipline: Information Technology
Tel: +61 2 60519903 email: mislam@csu.edu.au

- Very High Dimensional Function Optimisation: A Metaheuristics Approach
- Computational Intelligence for ICT Security
- Cloud Security: A Management Perspective
- Financial Fraud Detection: A Computational Intelligence Approach

Contact: Dr Maumita Bhattacharya
Campus: Albury
Discipline: Information Technology
Tel: +61 2 60519619 email: mbhattacharya@csu.edu.au
Discipline: Information Technology

- A Technical Solution towards Privacy Issues Arising from the Use of Data Mining on Sensitive Data Sets such as Health and Financial Data.
- Tackling Data Mining Threats on Individual Privacy without Losing Enormous Benefits of Data Mining.
- Application of Sophisticated Data Mining Techniques for Various Social Network Analyses Including Identification of “Good Guys” and “Bad Guys” for Various Purposes Such As National Security.
- On Line Security Threats and Ethical Issues Due to the Application of Various Data Mining Techniques.
- Threats of Data Mining to the Privacy of Social Networking Site Users.

Data Cleansing and Pre-processing Techniques for Better Data Management
- Data Cleansing through Automatic Detection and Correction of Corrupt Data in Order to Achieve Better Pattern Discovery and Prediction.
- Data Quality Improvement through Missing Value Imputation.

Data Mining on Distributed Data Sets such as Data Mining of Data Owned by Two Banks
- Distributed Data Mining Algorithm on Horizontally and Vertically Partitioned Data Sets Stored in Dispersed Locations.
- Privacy Preserving Data Mining on Distributed Data Sets Owned by Multiple Parties such as Banks.

Pattern Discovery through Data Mining Techniques/Algorithms
- Extraction of Multiple Decision Trees from a Data Set for Better Data Analysis and Prediction.
- A Novel Decision Tree Algorithm for Extraction of Hidden Patterns that are Generally Missed Out by Existing Algorithms.

Clustering of Data
- A Novel Clustering Algorithm for Obtaining Multiple Sets of Clusters (Instead of Conventional Single Set of Clusters) Based on User Defined Significance Levels on Different Attributes.
- Automatically finding groups of friends online through the application of clustering.
- Spatial Clustering for Land Cover Classification Analysis.
- Parallel Processing of Various Data Mining Algorithms Including Artificial Neural Network Using GPU (Instead of CPU) Based on CUDA Architecture for Building Classifiers Faster.
- Complexity Reduction of Artificial Neural Network Algorithms.
- Logic Rules Extraction from Artificial Neural Networks.

Contact: Dr Zahid Islam
Campus: Bathurst
Discipline: Information Technology
Tel: +61 2 69332415 email: zislam@csu.edu.au
Discipline: Information Technology

Application of Data Mining to Solve Real Life Problems
- Development of an Intelligent Decision Support System for Better Water Management.
- Water Demand Forecasting by Pre-processing Data Sets Obtained from Satellite Images, Weather Station Data and Meteorological Data.
- Natural Language Processing in Text Data Mining for Automatic Summarisation and Semantic Grouping of Documents.
- Agent based modelling to predict property price changes in Bathurst.
- Application of data mining for machine failure prediction.
- Application of data mining for financial market prediction.
- Business analysis through the data mining on business data.
- Association Rule Mining to Discover Unknown Buying Patterns for designing better marketing strategies.

Contact: Dr Zahid Islam
Campus: Bathurst
Discipline: Information Technology
Tel: +61 2 69332415 email: zislam@csu.edu.au

- LTSA-based Image Matting Algorithm
- Structured Constraints for Image Matting
- Image Filtering with Local Tangent Space Alignment
- Determine Global Coordinates in Mixture of t-Distribution Models
- L1 Gaussian Process Latent Variable Models
- Denoising and deblurring images
- Multitask Sparse Bayesian Relevance Vector Machines
- Incoherent Sparse and Low-Rank PCA
- Robust PCA Based Video Coding

Contact: Prof Junbin Gao
Campus: Bathurst
Discipline: Information Technology
Tel: +61 2 63384213 email: jbgao@csu.edu.au

- Malicious Multimedia detection for cyber security
- Human/Car detection for video surveillance and security
- Mind reading through eye tracker
- Visual attention modelling using eye tracker
- Epileptic disorder detection through brain signal analysis
- Alcoholic effect detection through brain signal analysis

Contact: Dr Manoranjan Paul
Campus: Bathurst
Discipline: Information Technology
Tel: +61 2 63384260 email: mpaul@csu.edu.au

- Measuring information flow in herding phenomena in economics and finance

Contact: Professor Terry Bossomaier
Campus: Bathurst
Discipline: Information Technology
Tel: +61 2 63384683 email: tbossomaier@csu.edu.au
Discipline: Information Technology

- Usability requirements for the use of Natural User Interface controls in mobile computing devices;
- Motion and gesture recognition issues in Natural User Interface controls;
- Head-Up Displays for mobile computing devices;
- Usability evaluation approach to interface design;
- Effective user interface designs for mobile cloud based services
- Motion and gesture based security for mobile computing devices;
- Conceptual Models of Security and Privacy and their effect on Reputational Security;
- Risk analysis framework for mobile cloud based data services;

Contact: Dr Peter White or Dr Michael Antolovich
Campus: Bathurst
Discipline: Information Technology
Tel: +61 409458344 email: pewhite@csu.edu.au

- Krylov subspace methods for linear ODE systems
- Multiple-Input multiple-output systems with Krylov subspace receivers
Contact: Dr Michael Kemp
Campus: Orange
Discipline: Information Technology
Tel: +61 2 63657840 email: mkemp@csu.edu.au

- Abnormal network behaviour analysis
- Network monitoring system
- Optimal cryptographic technique
- Artificial intelligence network load balancing
- Security in Cloud Computing
- Human abnormal behaviour detection
- Optical character recognition
- Dimension reduction in image analysis
- Image retrieval and object detection

Contact: Dr Lihong Zheng
Campus: Wagga Wagga
Discipline: Information Technology
Tel: +61 2 69332387 email: lzheng@csu.edu.au
Discipline: Information Technology

- Threats and countermeasures in low powered smart devices
- Cyber security and protection against identity theft
- Forensics computing – information hiding in mobile devices
- Security issues in cloud computing
- Application of wireless sensor networks in healthcare
- Wireless sensor networks in event detection
- Energy harvesting in wireless sensor networks
- Vehicle to vehicle ad hoc networks

Contact: Dr Tanveer Zia
Campus: Wagga Wagga
Discipline: Information Technology
Tel: +61 2 69332024  email: tzia@csu.edu.au

- The effectiveness of ICT ethics teaching and professionalism in the workplace
- ICT ethics teaching at Australian universities: problems and solutions
- Impact of loss of privacy in Social Networks Sites
- A technical solution to protect data in Social Networks Sites
- Invading privacy at a country level: the case of Google

Contact: Dr Yeslam Al-Saggaf
Campus: Wagga Wagga
Discipline: Information Technology
Tel: +61 2 69332593  email: yal-saggaf@csu.edu.au

- Intelligent wireless sensor networks
- Artificial intelligence in wireless sensor networks
- Bio-logical model of wireless sensor networks
- Logical topology based application design paradigm for wireless sensor network
- Security in wireless sensor networks

Contact: Mr Quazi Manun
Campus: Wagga Wagga
Discipline: Information Technology
Tel: +61 2 69334725  email: gmamun@csu.edu.au
**Discipline: Information Technology**

- Mobile gaming power consumption. This project will examine and compare various techniques for organizing and displaying virtual worlds in terms of power consumption for modern Android smartphones.
- Opponent Simulation in Computer Games. This project will review the latest advances in human opponent simulation and examine the use of such Game AI technology for testing during the development process.

**Contact:** Dr Jim Tulip  
Campus: **Bathurst**  
Discipline: Information Technology  
Tel: +61 2 633 84931 email: [jtulip@csu.edu.au](mailto:jtulip@csu.edu.au)
**Discipline: Management**

- Managing Agricultural Farm Prices
- Valuing Exchange Rates
- Role of the $A in the Australian economy

**Contact:** Mr Mark Frost  
Campus: **Bathurst**  
Discipline: Management  
Tel: +61 2 6334455 email: mfrost@csu.edu.au

- Gender and Management  
- Executive Leadership and Performance  
- Executive Women and Men  
- Leadership and Climate Change  
- Creativity, Innovation and Management  
- Leadership and Strategic Management

**Contact:** Dr Kerry Tilbrook  
Campus: **Bathurst**  
Discipline: Management  
Tel: +61 2 63384252 email: mfrost@csu.edu.au

- Bullying and work place aggression in Australian organisations  
- Training needs of health care professionals in public hospitals in Australia  
- Leadership styles of Australian managers  
- Human resource management practices in regional firms in Australia  
- Employability, Skill shortages and Talent management in Australian organisations  
- Diversity management and Localisation of Human resources in Australian firms

**Contact:** Dr Bhanugopan Ramudu  
Campus: **Wagga Wagga**  
Discipline: Management  
Tel: + 61 2 69332696 email: bramudu@csu.edu.au

- Management/Marketing topics employing structural equation modelling  
- Measuring the identity of a co-operative  
- Why do co-operatives fail?  
- Member Participation, Commitment, Attitudes and Performance in Co-operatives

**Contact:** Prof Eddie Oczkowski  
Campus: **Wagga Wagga**  
Discipline: Management/Marketing  
Tel: +61 2 69332377 email: eoczkowski@csu.edu.au

- Value creation – value appropriation ambidexterity  
- Antecedences and Consequences of marketing and product innovation ambidexterity

**Contact:** Dr Phyra Sok  
Campus: **Albury-Wodonga**  
Discipline: Marketing/Management  
Tel: +61 2 60519320 email: psok@csu.edu.au
Discipline: Marketing

- What is the relative identity salience of consumers online and offline identities and what impact does this have on their purchase intentions?

Contact: Mrs Jodie Kleinschafer
Campus: Bathurst
Discipline: Marketing
Tel: +61 2 63384851  email: jkleinschafer@csu.edu.au

- Regional branding
- Branding strategy in SMEs

Contact: Cathi McMullen
Campus: Bathurst
Discipline: Marketing
Tel: +61 2 63384783  email: cmcmullen@csu.edu.au