The LIDA-IG continued to grow membership in 2017. We now have about 260 members of whom approximately 200 are also members of the ASA. If you have colleagues or students with a strong interest in life history data, please let them know of this initiative and invite them to join. There will be sign-up sheets at the JSM Annual Meeting in Baltimore, but the information on joining can also be found on the LIDA-IG website. In the past year the Charter developed by the executive committee has been successfully approved by the ASA Committee of Sections. The Charter will be modified and used as a supporting document for the application of ASA LIDA-Section.

In May 25-27, 2017, the LIDA-IG sponsored a conference on Lifetime Data Science at the University of Connecticut, Storrs. The purpose of the conference was to promote and support the development and application of statistical methods for lifetime or time-to-event data in the very broad spectrum of data science, precision medicine and risk analysis. As the first conference sponsored by LIDA-IG, it received very enthusiastic support from our profession, where 63 sessions were organized and approximately 340 people registered to participate. The conference plan was well supported by a large and very distinguished Program Committee and an extremely effective Local Organizing Committee, led by Drs. Ming-Hui Chen and Jun Yan from the University of Connecticut. The keynote speeches of the conference were delivered by two highly accomplished leaders in Biometry and Statistics: Professor Niels Keiding from the University of Copenhagen, Denmark, and Professor Lee-Jen Wei from Harvard University, USA. Associated with the conference were two half-day and two full-day short courses, which were taught by five leading experts in their respective areas: Drs. Mitchell Gail, Joseph Ibrahim, Ruth Pfeiffer, Joanna Shih and Xiao-Hua (Andrew) Zhou. The conference included poster and paper competitions for students and post-docs, where the competition results are summarized in this Newsletter by Dr. Zhezhen Jin, the Student Paper/Poster Committee Chair. The impressive two-day technical program covered a broad array of interesting topics delivered by approximately 240 speakers, a substantial proportion of whom are senior leaders in the field. During and after the conference, the LIDA-IG executive committee received very positive feedbacks from conference attendees, which greatly encourage and support the continuation of a similar event in 2019.

The LIDA-IG will soon have its annual meeting at the JSM in Baltimore. All members and friends are welcome to attend:

Meeting Title: Lifetime Data Analysis Interest Group Business Meeting
Time: 5:00–6:30pm, Monday, 7/31/2017
Meeting Room: CC-311

The LIDA-IG will sponsor or co-sponsor several activities and events in 2017 and 2018: co-sponsor the 2017 ICSA China Conference in Jilin; sponsor a topic-contributed session and co-sponsor three invited sessions at 2017 JSM (summarized by Dr. Bin Nan, the LIDA-IG Program Chair 2017); co-sponsor the 2018 ICSA China Conference in Qindao, China.

Mei-Cheng Wang, Chair 2017
Report from the 2017 Conference on Lifetime Data Science

Overall

The LIDA-IG was the primary sponsor of a conference, entitled “Data science, precision medicine and risk analysis with lifetime data,” which was held at the University of Connecticut, Storrs, Connecticut, on May 25-27, 2017. The aim of the conference was to promote and support the development and application of statistical methods for lifetime or time-to-event data. The conference was jointly-sponsored by the International Chinese Statistical Association (ICSA), the University of Connecticut, Bayer Pharmaceuticals, Takeda Pharmaceuticals, and the American Statistical Association. The conference was a great success by any measure as many participants commented. There were well over three hundred registrants and over sixty invited sessions with many excellent presentations over the course of the conference.

I served as Conference Chair, which is a position that I strongly recommend since it involved very little work but people continually complimented me on the conferences organization and content. The success of the conference, however, was due to the work of Mei-Cheng Wang of Johns Hopkins University, who served as Program Chair for the conference, and the local arrangements that were so ably managed by Ming-Hui Chen and Jun Yan, both from the University of Connecticut. Mei-Cheng also worked with a large and effective program committee. The scientific level of the meeting was outstanding as was the venue at the University of Connecticut. Thursday, May 25 saw the presentation of four short courses and workshops on lifetime data science. The main conference began on May 26 with a plenary keynote session with talks by Niels Keiding (University of Copenhagen) and Lee-Jen (L.J.) Wei (Harvard University). This was followed with many concurrent sessions to accommodate the high level of interest that the conference attracted. This made it a challenge for participants to choose among the many options available.

This was the first major event sponsored primarily by the LIDA-IG, and did much to advertise its activities and potential. Many participants felt that a follow up conference in two or three years would be timely and perhaps form the beginning of a continuing series of conferences sponsored by our Interest Group, or soon to be Section.

Jack Kalbfleisch, Past Chair

Student Paper/Poster Awards

A student and postdoctoral paper and poster award competition was held for the 2017 LIDA conference. The review committee consists of Dr. Gang Li (University of California in Los Angeles), Dr. Guoqing Diao (George Mason University), Dr. Ian McKeague (Columbia University), and is chaired by Dr. Zhezhen Jin (Columbia University).

The submitted papers went through thorough review by the committee. The three winners in alphabetical order are:
- Fei Gao, University of North Carolina at Chapel Hill
- Jon Ari Steingrimsson, Johns Hopkins University
- Yifei Sun, Johns Hopkins University

The posters were presented during the mixer in the evening of May 25, 2017. The committee members evaluated the poster presentation through contents and questions. The three winners in alphabetical order are:
- Eric Kawaguchi, university of California in Los Angeles
- Youjin Lee, Johns Hopkins University
- Jing Wu, University of Connecticut

The six awards were presented during the banquet on May 26. We would like to thank all of the participants for their contributions.

The abstracts of the winning papers are:

(1) Fei Gao, Donglin Zeng and Danyu Lin: Semiparametric regression analysis of interval-censored data with informative dropout

Abstract: Interval-censored data arise when the event of interest can only be ascertained through periodic examinations. In medical studies, subjects may not complete the examination schedule for reasons related to the event of interest. In this paper, we develop a semiparametric approach to adjust for such informative dropout in regression analysis of interval-censored data. Specifically, we propose a broad class of joint models, under which the event time of interest follows a transformation model with a random effect and the dropout time follows a different transformation model but with the same random effect. We consider nonparametric maximum likelihood estimation and develop an EM algorithm that involves simple and stable calculations. We prove that the resulting estimators of the regression parameters are consistent, asymptotic normal, and asymptotically efficient with a covariance matrix that can be consistently estimated through profile likelihood. In addition, we show how to consistently estimate the survival function when dropout represents voluntary withdrawal and the cumulative incidence function when dropout is an unavoidable terminal event. Furthermore, we assess the performance of the proposed numerical and inferential procedures through extensive simulation studies. Finally, we provide an application to data on the incidence of diabetes from a major epidemiological cohort study.

(2) Jon Arni Steingrimsson, Liqun Diao and Robert L. Strawderman: Censoring unbiased regression trees and ensembles

Abstract: This paper proposes a novel approach to building regression trees and ensemble learning in survival analysis. By first extending the theory of censoring unbiased transformations, we construct observed data estimators of full data loss functions in cases where responses can be right censored. This theory is used to construct two specific classes of methods for building regression trees and regression ensembles that respectively make use of Buckley-James and doubly robust estimating equations for a given full data risk function. For the particular case of squared error loss, we further show how to implement these algorithms using existing software (e.g., CART, random forests) by making use of a related form of response imputation. Comparisons of these methods to existing ensemble procedures for predicting survival probabilities are provided in both simulated settings.
and through applications to four datasets. It is shown that these
new methods either improve upon, or remain competitive with,
existing implementations of random survival forests, conditional
inference forests, and recursively imputed survival trees.

(3) Yifei Sun, Jing Qin and Chiung-Yu Huang: Missing infor-
weight function, to obtain more efficient estimation. In this
vaginal delivery at the cost of allowing more time on labor even
Sparse Cox’s regression via broken adaptive ridge
followed.

and real data analysis based on more than 100,000 cases will be
burden. The numerical studies reflecting the plausible situations
estimation method which substantially reduces computational
integration to deal with unobserved frailty and propose the
observed covariates and frailty. We employ Gaussian quadrature
thereby assuring independence of two different models given

neonatal morbidities across the duration of second stage labor.
individual when the risk of C-section and the risk of mater-
beyond the accepted time since C-section carries its own risk
prompting a cesarean section (C-section) after pre-specified time.

as well. We compare the risks of C-section and maternal or
bilateral morbidities, thus often

right-censored data with unspecified or known truncation time
distributions. Our framework is structured in a way that is
easy to understand and enjoys a great flexibility for handling
different types of models. Moreover, a new test for checking
the independence between the underlying truncation time and
survival time is derived along the same line. The proposed
hypothesis testing procedure utilizes all observed data and hence
can yield a much higher power than the conditional Kendall’s tau
test that only involves comparable pairs of observations under
truncation. Numerical simulation studies with practical sample
sizes are conducted to compare the performance of the proposed
method with its competitors. The proposed methodologies are
applied to a dementia study and a nursing house study for
illustration.

The abstracts of the winning posters are:

(1) Youjin Lee, Rajeshwari Sundaram and Mei-Cheng Wang:
Joint modeling of delivery time and onset time of morbidity
during the second-stage labor
Abstract: Prolonged second stage labor has been believed
to directly lead maternal and neonatal morbidities, thus often
prompting a cesarean section (C-section) after pre-specified time.
On the other hand, there might be other benefits from pursuing
vaginal delivery at the cost of allowing more time on labor even
beyond the accepted time since C-section carries its own risk
as well. We compare the risks of C-section and maternal or
neonatal morbidities across the duration of second stage labor.
We are ultimately interested in finding the right time for each
individual when the risk of C-section and the risk of maternal
or neonatal morbidity are balanced, conditioned on other
given baseline covariates. This finding would furnish valuable
reference for an obstetrician about when women should stop
pushing. Our proposed semi-parametric joint model combines
competing-risks data having three-type of delivery mode and
current-status data of morbidity with individual-specified frailty,
thereby assuring independence of two different models given
observed covariates and frailty. We employ Gaussian quadrature
integration to deal with unobserved frailty and propose the
estimation method which substantially reduces computational
burden. The numerical studies reflecting the plausible situations
and real data analysis based on more than 100,000 cases will be
followed.

(2) Eric Kawaguchi, Marc Suchard, Zhenqiu Liu and Gang Li:
Sparse Cox’s regression via broken adaptive ridge

Abstract: We develop a new variable selection method
for sparse large-scale and high-dimensional data survival data. Our
proposed method, broken adaptive ridge regression for
Coxs proportional hazards model (CoxBAR), approximates L0-
regularized regression through an iteratively reweighted L2-
regularization algorithm. We show that CoxBAR possesses
both an oracle property and a grouping property. Empirical
results show that cross-validation is not needed for CoxBAR
which is a key advantage for large-scale data. Our algorithm
is implemented to take advantage of the sparsity in both the
design matrix and partial likelihood for efficient computing.
The proposed method is illustrated using the National Trauma
Database.

(3) Jing Wu, Elizabeth D. Schifano, Jun Yan, Yuping Zhang
and Ming-Hui Chen: Online updating of survival analysis in the
big data setting
Abstract: When large amounts of survival data arrive in
streams, conventional estimation methods may become infeasible
since they require storage of all the risk sets at each accumula-
tion point. In this paper, we develop online updating methods
for carrying out survival analysis under the Cox proportional
hazards models. Specifically, we propose online-updating esti-
mators as well as their corresponding standard errors for both
the regression coefficients and the baseline hazard function. The-
etorical properties of the estimators are examined in detail. An
extensive simulation study is conducted to examine empirical
performance of the proposed estimators. A large prostate cancer
data set from SEER is analyzed to further demonstrate the
proposed methodology.

Zhezhen Jin, Chair
Student Paper/Poster Committee

Local Organization
It was our great pleasure to host the 2017 LIDA Conference
at University of Connecticut. About 340 participants enjoyed
the pleasant Spring weather at Storrs and the warm hospitality
of the faculty and students of UConn. This is a big gathering
of people working on lifetime data science, researchers and
practitioners, seniors and juniors, novices and experts. We
strove to provide the best support to the colleagues coming
to the conferences from all over the world despite a limited
budget and resources. The conference started from four short
courses on Thursday, May 25. With a friendly registration fee
($160 for non-student participant), we were able to provide a
mixer reception on Thursday evening, two breakfasts, one lunch
at the Student Union on Friday, and one barbecue lunch on
Saturday. 120 guests joined the banquet dinner on Friday at
Chang’s Garden, where the authentic, multiple-course Chinese
food became a lasting memory. We are grateful to those who
kindly send us encouragingly positive feedbacks about their
conference experience.

The success of the local organization depended on a spectac-
ular team work. We thank Drs. Ray Liu and Jonathan Siegel
for their efforts in facilitating the sponsorship from Takeda and
Bayer, respectively. Our student webmaster Henry Linder, did
an excellent job; he communicated closely with the program
committee chair Dr. Mei-Cheng Wang from a very early stage,
initiated/maintained the conference website, and developed tools
for the registration, abstract submission, and program book generation. Our graduate student volunteers were the best helpers and played a critical role to ensure the smoothness of the conference in all aspects. The coordinator, Hao Li, successfully recruited 26 student volunteers. Under the leadership of Hao Li, Disheng Mao, Jing Wu, Yeongjin Gwon, and Arita Halder, they tended the registration desks continuously for three days, provided technical support on presentations at every single session, took photos for almost every presenter, and did many other things to make all participants to feel warmly welcomed. We would also like to thank the UConn Statistics Department staffs, Megan Petsa, Tracy Burke, and Hannah Melroy, for their endless support and preparation for this conference. Finally, we would like to thank Anne Hill of UConn Events & Conference Services for having done such an outstanding job for taking care of all detailed logistics, arrangements, and preparation for this conference. We would not have such a successful conference without her great effort, hard work and dedication.

We thank all participants for visiting UConn and hope you have marked UConn as an interesting stop in your journey of lifetime data science.

*Ming-Hui Chen* and *Jun Yan*, Co-Chairs
Local Organizing Committee

**Report from 2017 ICSA China Conference with the Focus on Lifetime Data**

The LIDA-IG was one of the sponsors for the 2017 ICSA China Conference with the Focus on Lifetime Data Science held at Jilin City of China during July 2-5. The conference attracted over 120 attendees coming from mainland China, Hong Kong, Korea, Taiwan, and United States. The two plenary speakers were Professor Jianqing Fan of Princeton University and LJ Wei of Harvard University. The conference covered a wide range of topics in data science, especially lifetime data, and related fields, and provided an excellent venue for scientific exchanges and possible research collaborations.

Five winners were selected for the Junior Research Award sponsored by the Biostatistics & Data Sciences Department at Boehringer Ingelheim (BI): Drs. Giorgos Bakoyannis (Indiana University), Yang Li (University of North Carolina at Charlotte), Ling Ma (Clemson University), Peijie Wang (Jilin University, China), and Xue Yang (Janssen Research & Development, Shanghai, China).

The conference was a great success as many attendees commented.

*Jingguo (Tong) Sun*, ICSA China Conference Chair

**Election 2017**

The LIDA-IG will hold an election this fall for the position of Chair-Elect; the successful candidate will serve as Chair in 2019 and Past Chair in 2020. As last year, the election will be coordinated by the Committee on Sections (COS) of the American Statistical Association. According to the Charter, the nominating committee consists of myself as Past Chair who serves as chair, Doug Schaubel as past Program Chair, and Rebecca Betensky who was appointed by the Chair of the IG. The nominating committee is charged with nominating a slate of candidates for the open positions. In accordance with the LIDA-IG charter, there is also the opportunity for nominations from the membership. Such nominations must be signed by at least five members of the Interest Group. The nominators should also be sure that the nominee is a member of the LIDA-IG and of the ASA and is willing to participate. Nominations should be sent to the Chair (Mei-Cheng Wang mcwang@jhu.edu) with a copy to the Secretary (Jonathon Siegel Jonathon.siegel@bayer.com). The deadline for nominations is August 23, 2016.

Following a recommendation of the COS, the LIDA-IG charter now indicates that the elected positions of Secretary and Treasurer are for three year terms. By agreement of those currently holding the positions, the position of Secretary will be a part of the election in 2018 and of Treasurer will be in 2019, with the incumbents serving until those times.

*Jack Kalbfleisch*, Past Chair

**Charter and Membership Update**

*LIDA Charter* The ASA requires all its interest groups to have a charter. By default, an interest group charter provides for a minimal set of officers including a chair, and has no provisions for handling money. Because we planned to support a strong educational program including conferences, we wanted additional structure including a treasurer, a webmaster, program and executive committees, and other features. This took a substantial amount of negotiations and interactions with the ASAs Council of Sections (COA), with several rounds of drafts and revisions. We submitted our first draft of our charter to the COA in March of 2016. Fine-tuning included clarifying which officers were elected and which appointed, longer terms for the Secretary and Treasurer, details on elections procedures and charter amendments, and a number of other features. The ASAs COA approved LIDAs charter on May 17, 2017.

*Membership* The LIDA-IG has passed the 200 ASA member mark, with 206 verified ASA members and 63 other members (non-verified or non ASA members). Membership is free and is critically important to us. Please encourage colleagues to join the LIDA-IG.

*Jonathan Siegel*, Secretary

**Annual Business Meeting 2017**

The annual LIDA-IG business meeting will be held during the JSM 2017 on Monday, July 31, from 5:00pm to 6:30pm, in Room 311 at the Baltimore Convention Center. All members are welcome to attend.

A tentative agenda of the business meeting is as follows.
1. Welcome; Mei-Cheng Wang
LIDA-IG Activities at JSM 2017

I would like to thank all the invited session organizers who chose our interest group (LIDA-IG) as either the primary sponsor or a co-sponsor. Since we do not have allocation of invited sessions as an interest group, all the invited session proposals with our interest group as the primary sponsor went to the Leadership Support Council representative on the program committee, who determines which proposals are accepted for the interest group competition slots. Nonetheless, we had achieved excellent appearance on the 2017 JSM Program with three approved invited sessions jointly sponsored by the LIDA-IG:

1. Sun, 7/30/2017, 4:30 PM–5:50 PM, CC-308, “Joint Modeling of Longitudinal Data, Recurrent Events and a Terminal event,” organized by Xuelin Huang with ENAR as the primary sponsor.
2. Mon, 7/31/2017, 10:30 AM–12:20 PM, CC-341, “New Advances in Statistical Methods for Complex Data,” organized by Kevin He with ICSA as the primary sponsor;
3. Tue, 8/1/2017, 2:00 PM–3:50 PM, CC-317, “Longitudinal /Repeated Measures and Terminal Events,” organized by Bin Nan with LIDA-IG as the primary sponsor;
   As an interest group, we have allocation of one topic contributed session:

Please mark your calendar and attend as many sessions as you can during the JSM 2017!

Bin Nan, Program Chair 2017

Call for Session Proposals for JSM 2018

It is time to start planning for the JSM 2018 which will be held during July 28—August 2, 2018 in Vancouver, British Columbia, Canada. As an interest group, we receive no allocation of invited sessions at the JSM, until we obtain the Section status. Most of our presence in the invited sessions at JSM has to come from sessions that are jointly sponsored by the LIDA-IG, but are selected by other organizations (such as ENAR, WNAR, the Biometrics section, etc.). If you are proposing an invited session for JSM 2018 on lifetime data or related areas, please consider including the LIDA-IG as one of the three sponsors that you can name. You also need to name two other sponsors, which have invited sessions slots to enter to their competitions. If your session is selected as an invited one, then it will appear also as a LIDA-IG sponsored session in the JSM program. Proposals that do not get approved that way will enter a competition for seven sessions that have been allocated to the Interest Groups.

An invited session proposal only needs to include a session title, general description of the session, list of participants, and tentative presentation titles (can be modified later). If a proposal is not selected for an invited session, it can be re-submitted as a topic contributed session. Proposals for invited sessions are due at the beginning of September. The AMStat News article last year by Dr. Regina Liu, Program Chair of JSM 2017, is still a useful resource (magazine.amstat.org/blog/2016/07/01/jsml7invited/). More accurate information will be available after the JSM. Please keep the LIDA-IG in mind when you network with friends and colleagues on ideas for invited session proposals in Baltimore.

Yu Shen, Program Chair 2018

Request for Proposals for Hosting the 2019 Lifetime Data Science Conference

The recent conference on Data Science, Precision Medicine and Risk Analysis with Lifetime Data at the University of Connecticut was an exciting and stimulating event in a wonderful venue. Thanks to Jack Kalbfleisch, Mei-Cheng Wang, Ming-Hui Chen and Jun Yan for putting together such a great program and ensuring smooth and comfortable local arrangements. The enthusiasm among those attending was so great that on the very first day of the conference several participants mentioned the idea of a follow-up event. The calibre of the scientific program and the exceptional local arrangements of the first conference set a high bar, so we wish to start planning now.

The purpose of this note is to encourage proposals from institutions interested in hosting a three day event which we plan to hold in May or June 2019. Proposals should be 2–3 pages and provide information on

- a list of members of a possible Local Arrangements Committee
• information on rooms for plenary sessions and the number of rooms for parallel sessions
• possible dates (Wednesday to Friday)
• audiovisual equipment
• proposed locations for reception and banquet
• local accommodations
• facilities for website development and promotion
• local map

Please consider submitting a proposal to Richard Cook (rjcook@uwaterloo.ca). Those received by October 1, 2017 will be reviewed and the Board will decide which to pursue by November 1, 2017.

Richard Cook, Chair-Elect

Member Awards

Richard Cook Professor and Tier 1 Canada Research Chair in the Department of Statistics and Actuarial Science at the University of Waterloo, was awarded the 2017 Gold Medal of the Statistical Society of Canada. The Gold Medal is awarded to a person who has made outstanding contributions to statistics, or to probability, either to mathematical developments or in applied work. It is intended to honor current leaders in their field.

Charles B. Hall Professor in the Department of Epidemiology & Population Health and the Saul R. Korey Department of Neurology at Albert Einstein College of Medicine, was named 2017 Fellow of the ASA “for outstanding statistical contributions to cognitive aging research, neurology and respiratory health; for outstanding mentoring and service to the profession.”

Xuelin Huang Professor in the Department of Biostatistics at The University of Texas MD Anderson Cancer Center, was named 2017 Fellow of the American Statistical Association “for innovative statistical methods in survival analysis and clinical trial design, for important contributions to cancer research, and for using statistical approaches to deliver better therapy to patients and to influence national public health policy.”

Jong-Hyeon Jeong Professor and Interim Chair of the Department of Biostatistics, University of Pittsburg, was named 2017 Fellow of the ASA “for outstanding research in competing risks, residual life and survival analysis, for collaborative contributions to clinical trials on breast cancer; and for leadership and service to the profession.”

Wenbin Lu Professor in the Department of Statistics at North Carolina State University, was named 2017 Fellow of the ASA “for seminal work in survival analysis, especially on cure models, semiparametric inference, variable selection and optimal treatment regime estimation; for excellence in teaching and mentoring graduate students; and for service to the profession.”

Limin Peng Professor in the Department of Biostatistics at Emory University, was named the recipient of the 2017 Mortimer Spiegelman Award by the American Public Health Association (APHA), for her contributions to biostatistical methods (particularly with respect to quantile regression) and practice (her ongoing contributions to diabetes studies), her excellent mentoring of students and colleagues, and her service to the field. The Mortimer Spiegelman Award is offered by the Statistics Section of the APHA to a statistician under the age of 40 every year since 1970 for contributions to public health statistics.

Yanyuan Ma Professor in the Department of Statistics at the Pennsylvania State University, was named 2017 Fellow of the ASA “for influential contributions to the theory, methodology and practice of semi-parametric methods, measurement error and latent variable models, and dimension reduction problems; and for excellence in mentoring.” Dr. Ma was also named 2017 Fellow of the Institute of Mathematical Statistics for “influential and original contributions to the development of dimension reduction techniques, and to semiparametric theory and methodology.”

Marloes H. Maathuis Professor of Statistics at ETH Zrich, was named 2017 Fellow of the Institute of Mathematical Statistics “for influential and original contributions to the theory and methodology for high-dimensional graphical modeling, algorithms for structure search, and causal inference.”

Mei-Cheng Wang Professor in the Department of Biostatistics at Johns Hopkins University, was named 2017 Fellow of the Institute of Mathematical Statistics for “influential contributions to survival analysis, including theory and application of random truncation and recurrent event processes.”

Jun Yan Professor in the Department of Statistics at University of Connecticut, was awarded 2017 Fellow of the ASA “for outstanding statistical applications in environmental and public health, for research contribution in survival analysis and computational statistics, and for service to our profession.”

New Articles in Lifetime Data Analysis

The July 2017 issue (Volume 23, number 3) of Lifetime Data Analysis has been published. The journal can be accessed at https://link.springer.com/journal/10985

• Sequential tests for non-proportional hazards data by Matthias Brückner, Werner Brannath. Pages 339-352
• Penalized variable selection in competing risks regression by Zhixuan Fu, Chirag R. Parikh, Bingqing Zhou. Pages 353-376
• Analysis of two-phase sampling data with semiparametric additive hazards models by Yanqing Sun, Xiuyan Qian, Qiong Shou, Peter B. Gilbert. Pages 377-399
• Partitioned log-rank tests for the overall homogeneity of hazard rate functions by Yukun Liu, Guosheng Yin. Pages 400-425
• Estimation of average causal effect using the restricted mean residual lifetime as effect measure by Zahra Mansouvar, Torben Martinussen. Pages 426-438
• Semiparametric partially linear varying coefficient models with panel count data by Xin He, Xuanan Feng, Xingwei Tong, Xingqiu Zhao. Pages 439-466
• Mark-specific additive hazards regression with continuous marks by Dongxiao Han, Liqun Sun, Yanqing Sun, Li Qi. Pages 467-494
• Generalized accelerated failure time spatial frailty model for arbitrarily censored data by Haiming Zhou, Timothy Hanson, Jiajia Zhang. Pages 495-515

Mei-Ling Ting Lee, Editor-in-Chief, Lifetime Data Analysis