Software engineering research can trace its roots to a small number of highly influ-
ential individuals. Among that select group is Prof. Leon J. Osterweil, whose work
has fundamentally defined or impacted major directions in software analysis, devel-
opment tools and environments, and software process. His exceptional and sustained
contributions to the field have been recognized with numerous awards and honors
throughout his career.

In honor of Lee’s career-long and profound accomplishments, a Festschrift event
occurred during the 2011 International Conference on Software Engineering (ICSE)
in Honolulu, Hawaii. The event comprised a day-long series of talks by prominent
members of the community, followed by a presentation by Lee to respond with his
thoughts and reflections.

This book was prepared in honor of that special occasion. It compiles Lee’s most
important published works to date, together with several new articles exploring the
broad impact of his work.

Whether this book provides your first exposure to Lee’s groundbreaking vision
of software engineering that has helped drive the field from its infancy to a mature
discipline, or whether it offers you new insight into the fascinating and important
modern impact of his work, we hope you will enjoy and benefit from it as much as
we did in assembling it.

It is impossible to produce a work of this magnitude without substantial contri-
butions from others. We would like to give special thanks to our area coordinators,
Lori A. Clarke, Matthew B. Dwyer, Wilhelm Schäfer, and Stanley M. Sutton Jr.,
who did a remarkable job organizing and contributing to their respective parts of
the book. We are also very grateful to Richard N. Taylor, the ICSE 2011 General
Chair, and Debra A. Brodbeck, the ICSE 2011 Conference Coordinator, for their
invaluable help in making the Festschrift a reality.

February 2011

Peri L. Tarr
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Engineering of Software
The Continuing Contributions of Leon J. Osterweil
Tarr, P.L.; Wolf, A.L. (Eds.)
2011, VIII, 417 p., Hardcover
ISBN: 978-3-642-19822-9