Transformational analysis in practice
Music-analytical studies on composers and musicians from around the world

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Acknowledgment

It is a great pleasure to witness first-hand the completion of this exciting and, in my humble opinion, much-wanted book in our discipline. While specializing in neo-Riemannian analysis since 2017 and delving into a large body of theoretical and analytical literature, I have discovered that, despite the ever-bigger proliferation of dissertations, journal articles, dedicated conference papers and book chapters, which use transformational theory, there have not yet been many anthologies similar to the one that we present today. Therefore, I would like to thank Vernon Press for giving me the opportunity to embark on this project and take such a great responsibility at an early stage of my academic career: to oversee and control the whole process, from the initial call for chapters, to the final completion of the book manuscript. A special thank you to Blanca Caro Duran for guiding me step-by-step and always providing me with prompt and detailed responses when I was asking numerous questions about the editorial work and manuscript preparation.

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A special thanks to Donyawan Kongchatree for helping me with designing the book cover and last, but not least, to my wonderful partner Xintong Jia – for inspiring me every day with her discipline and showing me what it is to strive for excellence in academic research.

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Previous research during his Master’s Degree analyzed the polytonal improvisation techniques of American saxophonist Mark Turner, specifically chromatic third relationships through octatonic and hexatonic collections. Tim has received several grants for overseas research and study, including the Australia Council for the Arts Skills Development Grant and JB Seed Fund Grant.

A highly creative and unique voice on saxophone, his albums feature regularly on national radio as leader or sideman and has performed with George Benson, The Temptations, Grammy Award winner Elio Villafranca and recorded in New York with drummer Dan Weiss, bassist Hans Glawischnig and pianist Barney McAll. In Australia, he performs and tours with the Tim Clarkson Trio, Dan Barnett Big Band, Dave Panichi Orchestra and multi ARIA award winners The MARA! Band.

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Preface

Since the 1990s, transformational music theory has slowly but steadily been gaining momentum as an important branch of the theoretical subfields, which aim to explain why music is harmonically organized the way it is. It arose with the attempts of a handful of theorists (predominantly American) to more fully explain the harmonic complexity of the highly chromatic music composed from around the middle of the nineteenth century onwards. This was in response to traditional tonal theories (such as Schenkerian or Roman numeral) and their difficulties in addressing the ever-larger tonal freedom in the styles of composers such as Wagner, Liszt, Franck or Bruckner. Abandoning the need to subordinate harmonic structures to a tonal hierarchy and to unify phrases with a single overarching tonic, but instead focusing on the types and logic of direct chord-to-chord relations (the so-called transformations), theorists such as David Lewin, Brian Hyer, David Kopp and Richard Cohn, among a number of others referenced throughout this book, managed to fill a significant gap in music analysis – the lack of satisfactory theory for the tonally transitional music of the late Romantic and early modern repertoires; music which could not be described as strictly tonal, but was at the same time based on the familiar consonant triads and seventh chords, which were already conventional harmonic blocks in the eighteenth and early nineteenth centuries. While defining the initial motivations for developing what is today widely recognizable as “neo-Riemannian theory and analysis” – those analytical threads and theoretical ideas derived from Hugo Riemann's highly influential Functional theory – we must admit that the “transformational” music-theoretical project nowadays far surpasses those nineteenth-century concepts such as functionality and harmonic dualism. Therefore, upon realizing how wide the variety of analytical methodologies and repertoires included in this volume is, we have decided to move away from the initially conceived “Neo-Riemannian analysis in practice” and instead title this book “Transformational analysis in practice”.

It can be claimed that the sequence of chapters in this collection loosely follows the chronological development of transformational theory (with neo-Riemannian analysis being a more suitable labelling for Part I) – moving from the chromatic tonal music of the nineteenth century towards the atonal music of the twentieth, then towards jazz and popular music. In view of this, a brief literature review tracing the development of the field from the 1980s onwards would not only be appropriate to integrate here, but it can also inform readers about the connections between ideas, methodologies and developments.
presented throughout this anthology. As an additional supplement for everyone researching in the field, the extensive bibliography, presented towards the end of the volume, serves to trace the chronology of research outputs in the broader field, having studies grouped on a decade-by-decade basis.

Hugo Riemann's extensive theoretical writings and especially those of the period 1877-90 (see final bibliography) laid the foundations of what we call functional harmony today, before gradually moving away from the strict rules of the common-practice functional tonality and towards integrating more chromatic, third-related and other supposedly less conventional harmonic relations into his theoretical model. It is precisely those later developments that have been taken on and recontextualized almost a century later by theorists such as David Lewin (1967, 1982, 1984, culminating in 1987), Richard Cohn (1988, consider especially his studies from 1996-98), Brian Hyer (1989, 1995), David Kopp (1995, 2002), Michael Kevin Mooney (1996), and Julian Hook (2002), to name a representative portion of the studies from the earlier years of neo-Riemannian theory, which gradually was getting replaced or becoming part of the more widely encompassing transformational theory.

As talking about chord or pitch proximity has been an essential part of Riemannian (and later neo-Riemannian) thinking, showing pitch relations in geometrical spaces such as the celebrated Tonnetz has been a most potent device for discussing harmony since Hostinský (1879). Geometrical representations of harmony have then been adapted and developed in multifaceted ways, from the familiar major-minor triadic Tonnetz as in Cohn (1998, “An Introduction to Neo-Riemannian Theory”), through more complex geometries for depicting relations between chords of more than three pitches, as in Douthett and Steinbach (1998) or Tymoczko (2006), to analyzing the atonal music of the twentieth century with adapted Tonnetze and other geometrical devices, as in Brown (1999) and Gollin (2000). The ability to represent harmony geometrically is what distinguishes transformational analysis from other, predominantly notation-based analytical systems. Bearing this in mind, it has been one of the primary motivations for the current project to put together a selection of visually appealing, and hence approachable and widely understandable analytical methodologies. We hope that analytical surveys, which are based on easily understandable and geometrically conceived figures and diagrams would have a wide readership and can motivate a growing integration of transformational theory into the undergraduate curriculums across music departments in English-speaking countries and beyond.

What distinguishes transformational from neo-Riemannian theoretical thinking is, perhaps to a largest extent, the development of a more abstract, mathematically-conceived way of discussing music, which started with David Lewin’s Generalized Musical Intervals and Transformations in 1987. This
approach has been continued by scholars such as Eytan Agmon (1989), Julian Hook (2002, 2011 and 2013) and Dmitri Tymoczko (2008, 2009 and 2011) and has arguably developed into the most prevalent thread in the field. Modeling musical transformations as elements of a mathematical group (basically applying group theory to music) has opened the doors for discussing all possible kinds of chords and chord or pitch relations, regardless of style, and hence transformational theory has become extremely flexible.\(^1\) Its extension to more dissonant and more complex sonorities, as well as to transformations between dyads, has led to the application of transformational methodologies to ever wider repertoires, including jazz, atonal music, as well as film music. The current volume presents a selection of analytical studies on jazz and post-tonal repertoires, the latter being represented by discussions of Webern, Copland, Vaughan Williams, Messiaen and Thomas Adès. There is a balance between more approachable, music-centered essays as in chapters 7 and 8, and more mathematically-rigorous surveys, as in chapters 9 and 10. For the latter, some background in mathematics would be beneficial to readers, while we believe that the discussion of musical examples can still be within everyone’s scope of understanding.

The more one delves into the theoretical and analytical landscapes as outlined crudely and perhaps overly succinctly above, the more one realizes that transformational music theories (supposedly more appropriate to be referred to in the plural) seem to have evolved piece-by-piece and continue to accommodate numerous semi-independent threads. This makes it possible for individual essays in the current anthology to situate themselves in numerous branches of the field, while chapters have been grouped into four distinct parts, based on the repertoires under discussion. Starting with the music which inspired the development of neo-Riemannian analytical thinking – the European Romantic music of the nineteenth century – essays proceed in a rough chronological order, firstly making a geographical excursion to art music from Brazil and Turkey, then returning to Europe for the atonal music of Anton Webern, before touching on other post-tonal composers, and, finally, acknowledging the suitability of transformational analysis to jazz and popular music.

\(^1\) Group theory is a mathematical framework that studies the properties and relationships of sets of elements, allowing for the exploration of symmetries, transformations, and patterns within a given system. In music theory, group theory is applied to analyze and understand chord progressions, pitch relations, and harmonic transformations across various musical styles.
While needing to admit that a book such as the one we have put together, cannot do full justice on all the important trends in the multifaceted field of transformational music theory that are simultaneously evolving today, we have striven to represent a wide variety of approaches to analysis – one that can be of interest to many musicology students, music practitioners, scholars in the field, and those who would like to broaden their understanding of music without limiting themselves to a particular style and epoch. As you delve into the forthcoming chapters, we encourage you to embrace the transformative power of music analysis and embark on a journey of discovery. Engage with the rich array of methodologies presented within these pages, explore the intricate landscapes of diverse musical styles, and let the essays inspire new perspectives and insights.
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